

CARNEGIE STEEL COMPANY,

PITTSBURG, PA.,

1923

ADDRESS:

General Offices;

Pittsburg; Carnegie Building,

or Domestic Sales Offices;

Atlanta; Candler Building,

Boston; Telephone Building,

Buffalo; 203 Ellicott Square Building,

Chicago; The "Rookery,"

Cincinnati; Union Trust Building,

Cleveland; Rockefeller Building,

Denver; Equitable Building,

Detroit; Union Trust Building,

New Orleans; Hennen Building,

New York; Empire Building,

Philadelphia; Pennsylvania Building,

Pittsburg; Carnegie Building,

Portland; Ainsworth Block,

San Francisco; Union Trust Building,

St. Louis; Chemical Building,

St. Paul; Pioneer Press Building.

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Philadelphia; Pennsylvania Building,

Pittsburg; Carnegie Building,

Portland, Ore.; Ainsworth Block,

San Francisco; Union Trust Building,

St. Louis; Chemical Building,

St. Paul; Pioneer Press Building.

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From the collection of:

Alan O'Bright

254

CARNEGIE STEEL COMPANY

MANUFACTURERS OF
BESSEMER AND
OPEN HEARTH STEEL

OF ALL GRADES



GENERAL OFFICES
CARNEGIE BUILDING, PITTSBURG, PA.

1903

List of Offices

GENERAL OFFICES

PITTSBURG, Carnegie Building

DOMESTIC SALES OFFICES

ATLANTA, Equitable Building

BOSTON, Telephone Building

BUFFALO, German Insurance Building

CHICAGO, "The Rookery"

CINCINNATI, Union Trust Building

CLEVELAND, Perry-Payne Building

DENVER, Boston Building

DETROIT, Union Trust Building

NEW ORLEANS, Hennen Building

NEW YORK, Empire Building

PHILADELPHIA, Harrison Building

PORTLAND, Ainsworth Block

SAN FRANCISCO, 258 Market Street

ST. LOUIS, National Bank of Commerce Building

ST. PAUL, Pioneer Press Building

FOREIGN SALES OFFICES

LONDON, ENGLAND, 71-72 King William Street

MONTREAL, CANADA, Bell Telephone Building

CITY OF MEXICO, 924 Apartado

SYDNEY, AUSTRALIA

List of Works

Edgar Thomson Furnaces
Edgar Thomson Steel Works
Edgar Thomson Foundry
Duquesne Blast Furnaces
Duquesne Steel Works
Homestead Steel Works
Carrie Furnaces
Lucy Furnaces
Upper Union Mills
Lower Union Mills
Howard Axle Works
Donora Steel Works and Furnaces
Bellaire Steel Works and Furnaces
Columbus Steel Works and Furnaces
Mingo Steel Works and Furnaces
New Castle Steel Works and Furnaces
Ohio Steel Works and Furnaces
Sharon Steel Works and Furnaces
Niles Furnace
Zanesville Furnace
South Sharon Steel Works and Furnaces
Clark Mills
Duncansville Mills
Valley Works :
 Greenville Mills
 Lower Union Mills
 Girard Mills
 Upper Union Mills
 Warren Mills
McCutcheon Mills
Monessen Mills
Painter Mills
Isabella Furnaces

PRODUCTS

Pig Iron and Furnace Products,

Ferromanganese, Spiegeleisen, Ingots,
Ingot Moulds, Billets, Blooms, Slabs,
Sheet Bars, Muck Bar,

Light and Standard Rails, Splice Bars,
Armor Plate, Plates for Bollers, Bridges,
Ships and Tanks,

Rolled Structural Shapes, such as Angles,
Rounds, Flats, Squares, Ovals, I-Beams,
Channels, Tees, Zees, Etc.

Structural Work

such as Trusses, Girders, Columns, Etc.,
Bars, Bands, Hoops, Cotton Ties,
Special Shapes, Skelp,
Forgings, such as Axles, Arch Bars,
and other Car Forgings,
Connecting Rods, Crank Shafts, Castings
and Galvanizing

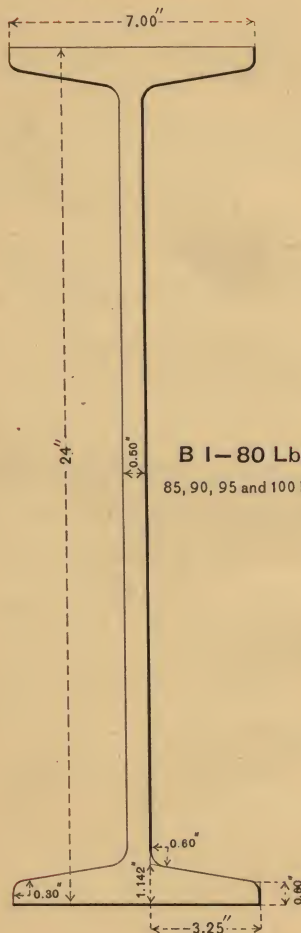
CARNEGIE STEEL COMPANY

Shapes

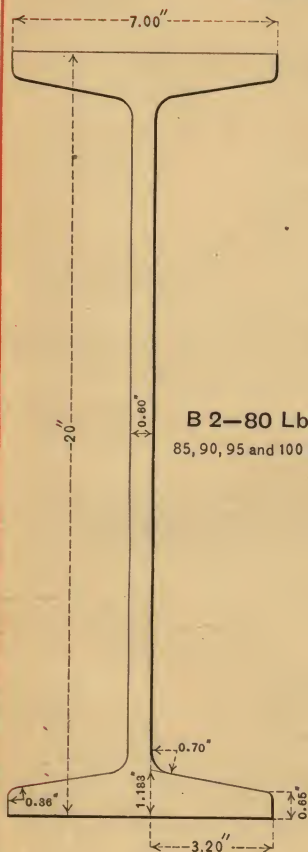
Manufactured by

Carnegie Steel Company

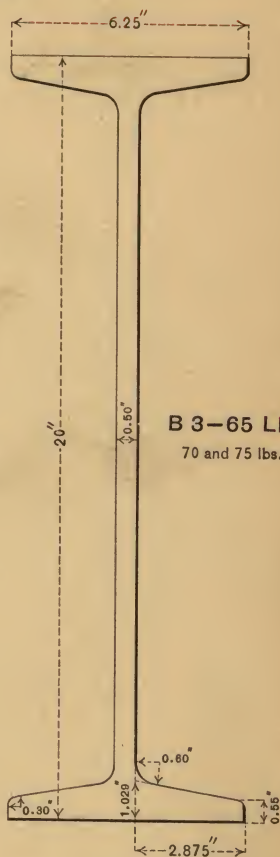
Pittsburg, Pa.

I-BEAMS

Weights in heavy print are standard, others are special

I-BEAMS**B 2-80 Lbs.**

85, 90, 95 and 100 lbs.

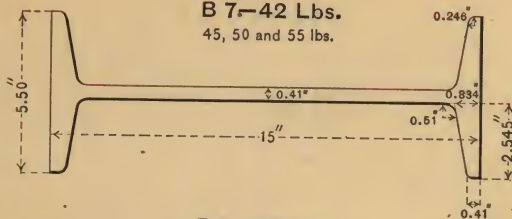
**B 3-65 Lbs.**

70 and 75 lbs.

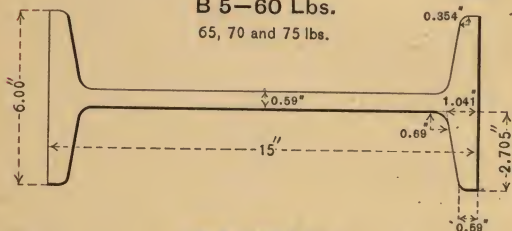
Weights in heavy print are standard, others are special

I-BEAMS**B 7-42 Lbs.**

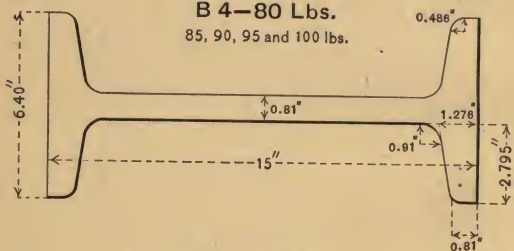
45, 50 and 55 lbs.

**B 5-60 Lbs.**

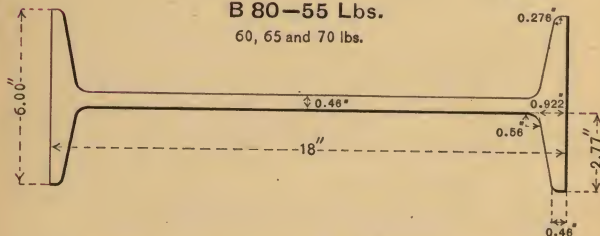
65, 70 and 75 lbs.

**B 4-80 Lbs.**

85, 90, 95 and 100 lbs.

**B 80-55 Lbs.**

60, 65 and 70 lbs.

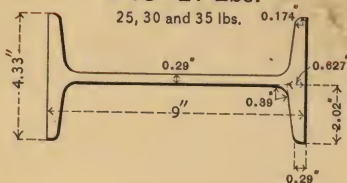


Weights in heavy print are standard, others are special

I-BEAMS

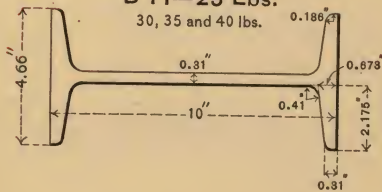
B 13-21 Lbs.

25, 30 and 35 lbs.



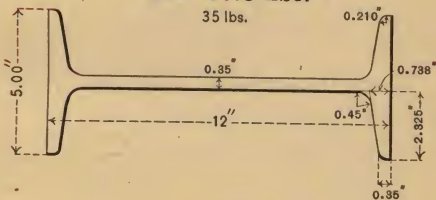
B 11-25 Lbs.

30, 35 and 40 lbs.



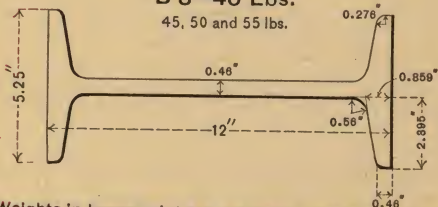
B 9-31.5 Lbs.

35 lbs.



B 8-40 Lbs.

45, 50 and 55 lbs.

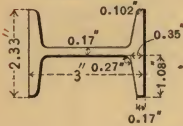


Weights in heavy print are standard, others are special

I- BEAMS

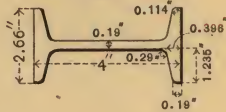
B 77—5.5 Lbs.

6.5 and 7.5 lbs.



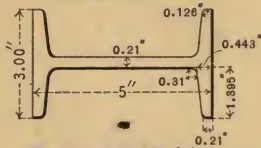
B 23—7.5 Lbs.

8.5, 9.5 and 10.5 lbs.



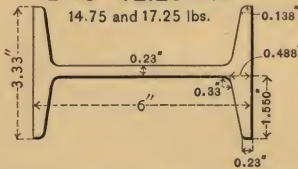
B 21—9.75 Lbs.

12.25 and 14.75 lbs.



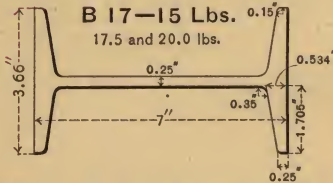
B 19—12.25 Lbs.

14.75 and 17.25 lbs.



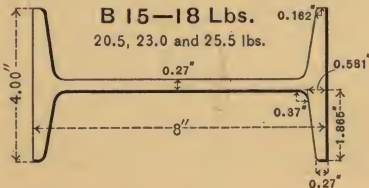
B 17—15 Lbs.

17.5 and 20.0 lbs.



B 15—18 Lbs.

20.5, 23.0 and 25.5 lbs.

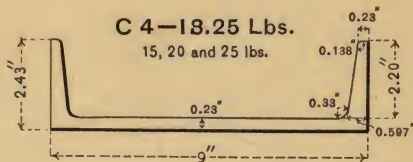


Weights in heavy print are standard, others are special

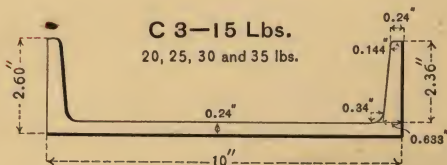
CHANNELS

C 4—18.25 Lbs.

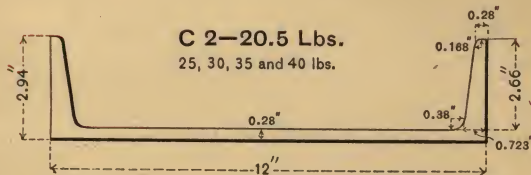
15, 20 and 25 lbs.

**C 3—15 Lbs.**

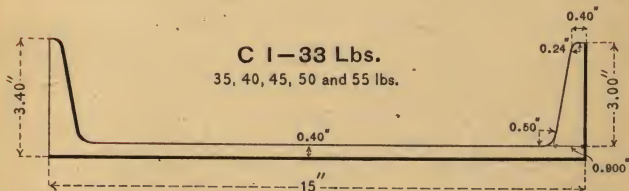
20, 25, 30 and 35 lbs.

**C 2—20.5 Lbs.**

25, 30, 35 and 40 lbs.

**C 1—33 Lbs.**

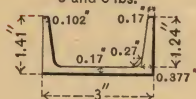
35, 40, 45, 50 and 55 lbs.



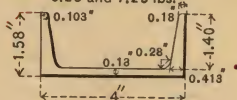
Weights in heavy print are standard, others are special

CHANNELS**C 72-4 Lbs.**

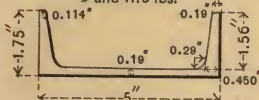
5 and 6 lbs.

**C 9-5.25 Lbs.**

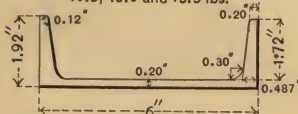
6.25 and 7.25 lbs.

**C 8-6.5 Lbs.**

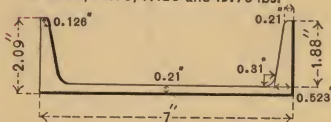
9 and 11.5 lbs.

**C 7-8 Lbs.**

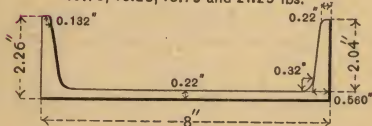
10.5, 13.0 and 15.5 lbs.

**C 6-9.75 Lbs.**

12.25, 14.75, 17.25 and 19.75 lbs.

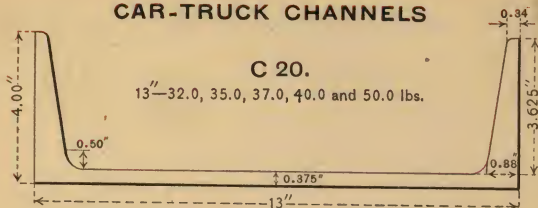
**C 5-11.25 Lbs.**

13.75, 16.25, 18.75 and 21.25 lbs.

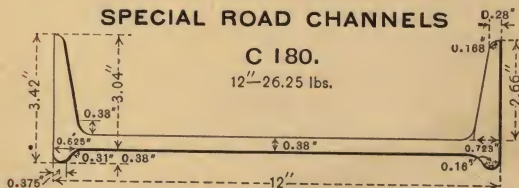


Weights in heavy print are standard, others are special

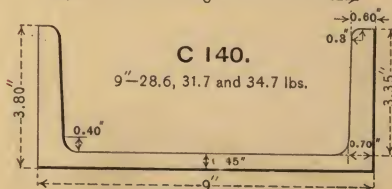
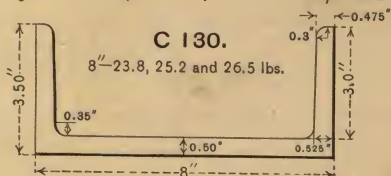
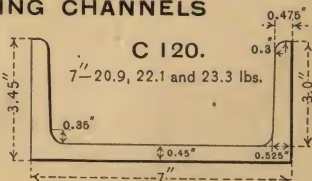
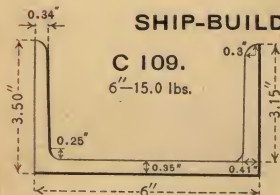
CAR-TRUCK CHANNELS



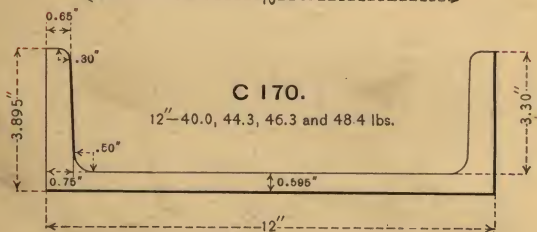
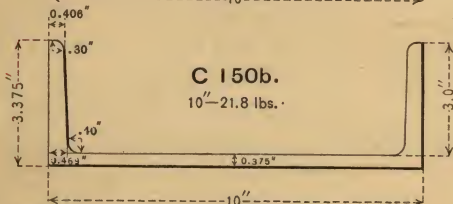
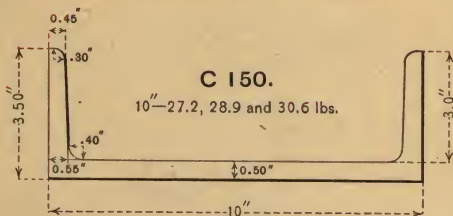
SPECIAL ROAD CHANNELS



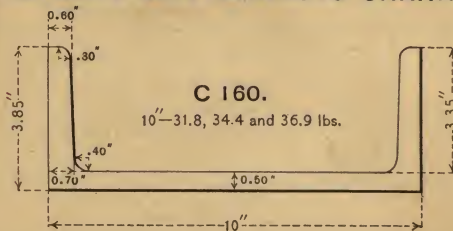
SHIP-BUILDING CHANNELS



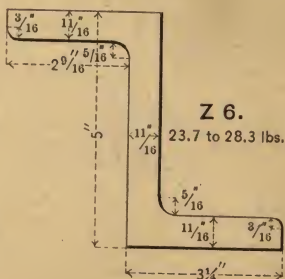
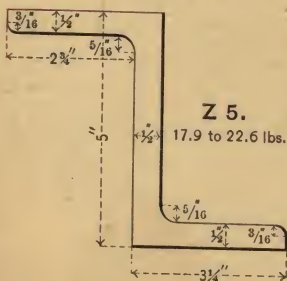
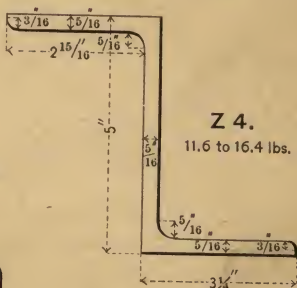
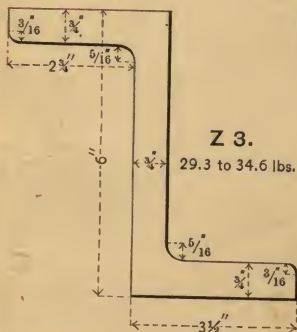
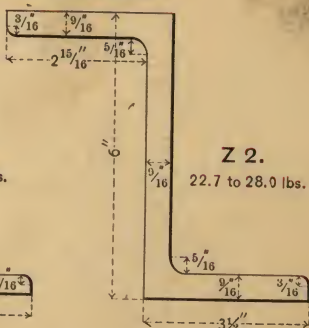
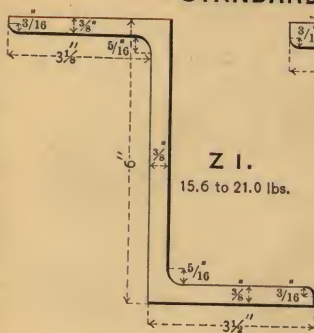
SHIP-BUILDING CHANNELS



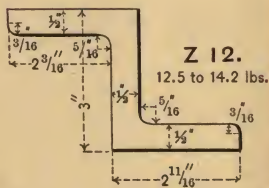
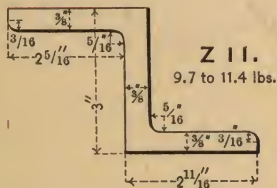
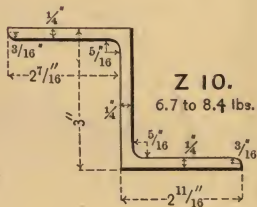
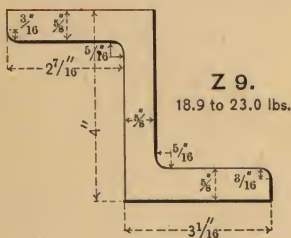
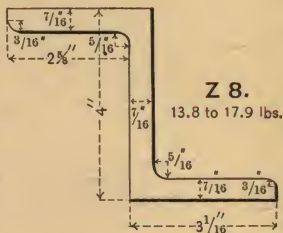
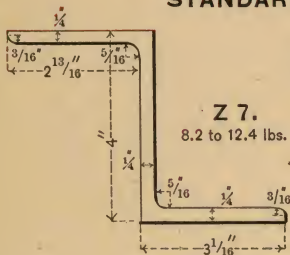
PROPOSED SHIP-BUILDING CHANNEL



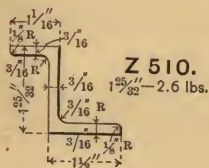
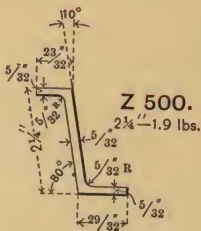
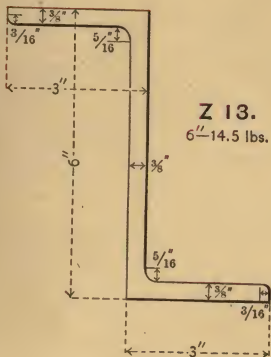
STANDARD Z-BARS



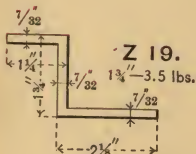
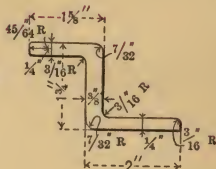
STANDARD Z-BARS



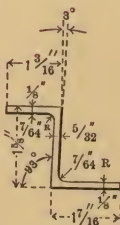
SPECIAL Z-BARS



Z 520.
1 3/8"—4.6 lbs.



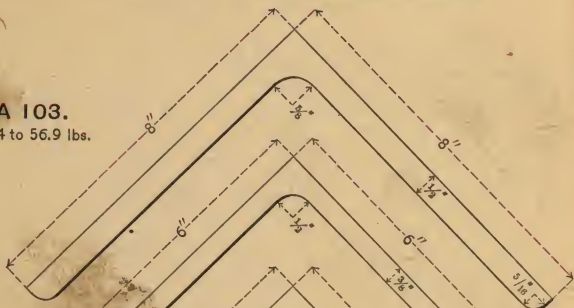
Z 530.
1 3/8"—1.9 lbs.



ANGLES WITH EQUAL LEGS

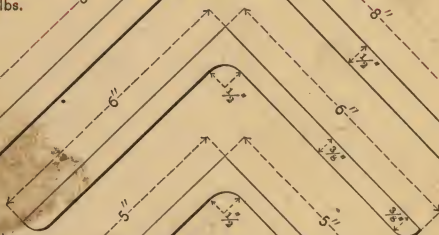
A 103.

26.4 to 56.9 lbs.



A 88.

14.9 to 37.4 lbs.



A 17.

12.3 to 30.6 lbs.



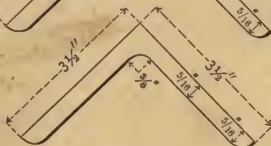
A 90.

8.2 to 19.9 lbs.



A 99.

7.2 to 17.1 lbs.



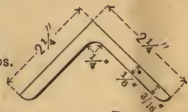
A 501.

2.5 to 11.5 lbs.



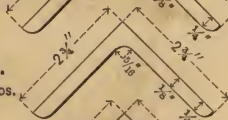
A 505.

1.9 to 6.8 lbs.



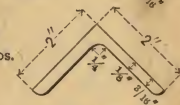
A 503.

2.3 to 8.5 lbs.



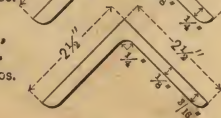
A 506.

1.7 to 5.3 lbs.



A 504.

2.1 to 7.7 lbs.



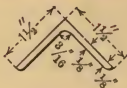
A 507.

1.4 to 4.6 lbs.



ANGLES WITH EQUAL LEGS

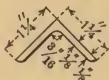
A 102.
1.3 to 3.4 lbs.



A 511.
0.5 to 1.0 lbs.



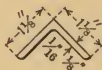
A 73.
1.1 to 2.4 lbs.



A 512.
0.5 to 0.9 lbs.



A 509.
0.9 to 1.3 lbs.



A 514.
0.4 to 0.5 lbs.



A 510.
0.6 to 1.5 lbs.

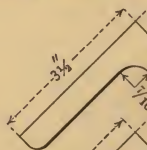


A 516.
0.3 to 0.4 lbs.

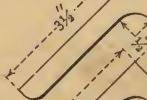


ANGLES WITH UNEQUAL LEGS

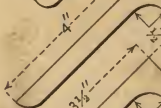
A 140.
20.5 lbs.
Can be rolled $\frac{1}{8}$ "



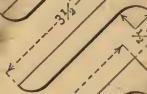
A 159.
15.0 to 32.3 lbs.



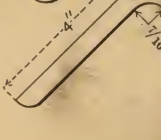
A 168.
12.3 to 30.6 lbs.



A 177.
11.7 to 28.9 lbs.



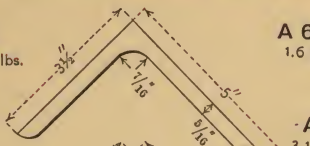
A 186.
11.0 to 24.2 lbs.



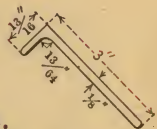
ANGLES WITH UNEQUAL LEGS

A 96.

8.7 to 22.7 lbs.

**A 607.**

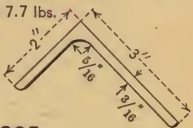
1.6 lbs.

**A 280.**

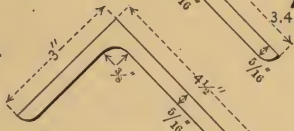
8.2 to 19.9 lbs.

**A 606.**

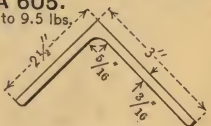
3.1 to 7.7 lbs.

**A 97.**

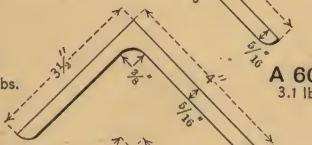
7.7 to 18.5 lbs.

**A 605.**

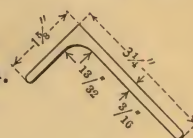
3.4 to 9.5 lbs.

**A 98.**

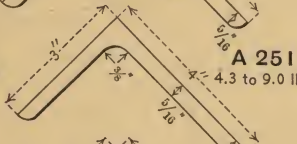
7.7 to 18.5 lbs.

**A 604.**

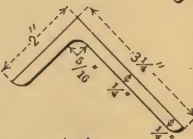
3.1 lbs.

**A 228.**

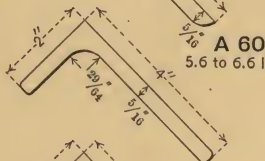
7.2 to 17.1 lbs.

**A 251.**

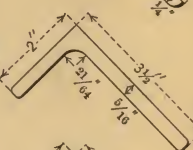
4.3 to 9.0 lbs.

**A 601.**

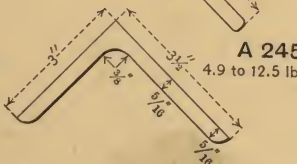
6.2 to 7.3 lbs.

**A 603.**

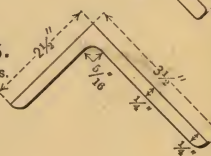
5.6 to 6.6 lbs.

**A 237.**

6.6 to 15.8 lbs.

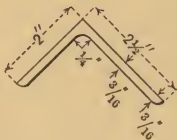
**A 245.**

4.9 to 12.5 lbs.



ANGLES WITH UNEQUAL LEGS

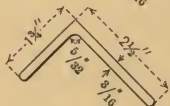
A 269.
2.8 to 6.8 lbs.



A 630.
0.6 to 0.9 lbs.



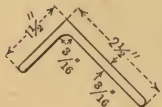
A 609.
2.6 to 3.4 lbs.



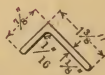
A 628.
0.7 to 1.0 lbs.



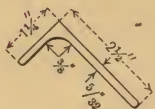
A 612.
2.4 to 3.9 lbs.



A 626.
0.9 to 1.3 lbs.



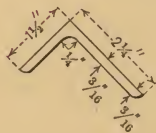
A 613.
2.0 lbs.



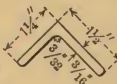
A 279.
1.0 to 1.9 lbs.



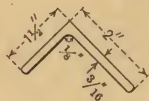
A 275.
2.3 to 5.6 lbs.



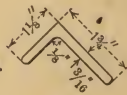
A 624.
1.6 to 2.1 lbs.



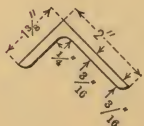
A 616.
2.1 to 3.4 lbs.



A 622.
1.7 to 2.2 lbs.



A 277.
2.1 to 2.7 lbs.



A 617.
0.8 lbs.



SPECIAL ANGLES—SQUARE ROOT

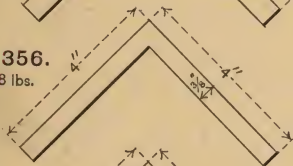
A 352.
15.7 lbs.



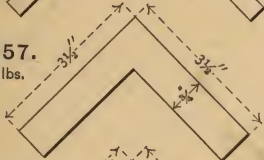
A 354.
12.8 lbs.



A 356.
9.8 lbs.



A 357.
16.0 lbs.



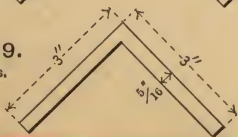
A 361.
11.1 lbs.



A 363.
8.5 lbs.



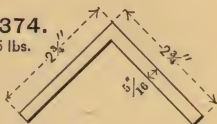
A 369.
6.1 lbs.



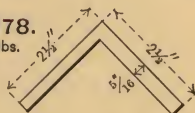
A 370.
4.9 lbs.



A 374.
5.6 lbs.



A 378.
5.0 lbs.



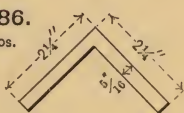
A 379.
4.1 lbs.



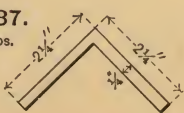
A 385.
5.3 lbs.



A 386.
4.5 lbs.



A 387.
3.7 lbs.



SPECIAL ANGLES—SQUARE ROOT

A 389.

4.7 lbs.



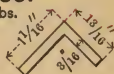
A 401.

2.0 lbs.



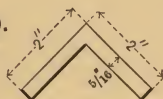
A 430.

1.1 lbs.



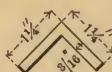
A 390.

4.0 lbs.



A 402.

1.5 lbs.



A 409.

1.5 lbs.



A 391.

3.2 lbs.



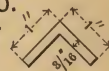
A 403.

1.1 lbs.



A 410.

1.2 lbs.



A 411.

0.8 lbs.



A 395.

2.8 lbs.



A 406.

1.7 lbs.



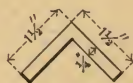
A 413.

0.7 lbs.



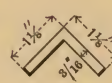
A 398.

2.4 lbs.



A 407.

1.3 lbs.



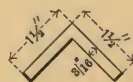
A 414.

0.9 lbs.



A 399.

1.8 lbs.



A 408.

0.9 lbs.



A 415.

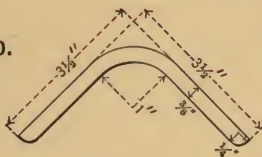
0.6 lbs.



ODD ANGLES

A 700.

7.8 lbs.



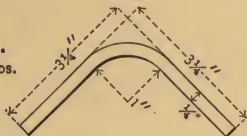
A 750.

2.0 lbs.



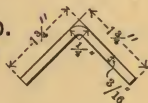
A 710.

4.9 to 6.1 lbs.



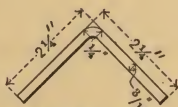
A 740.

2.1 lbs.



A 720.

2.8 to 3.7 lbs.



A 730.

2.5 lbs.

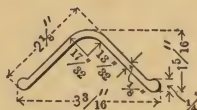


BEADED ANGLE

60° ANGLE

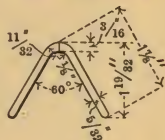
A 760.

1.8 to 3.6 lbs.



A 790.

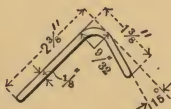
2.0 lbs.



PROTECTION STRIP

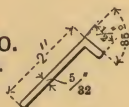
A 770.

1.5 lbs.



A 780.

1.2 lbs.



SPECIAL ANGLE

TAPER ANGLE

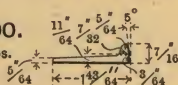
A 910.

0.5 lbs.

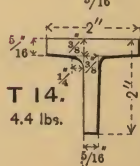
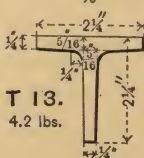
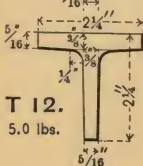
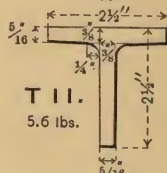
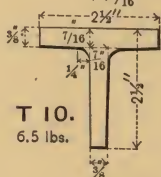
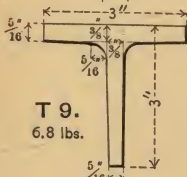
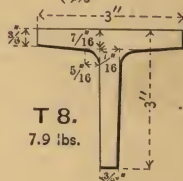
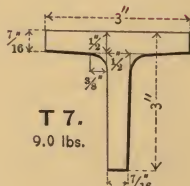
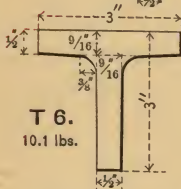
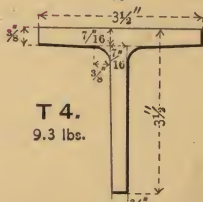
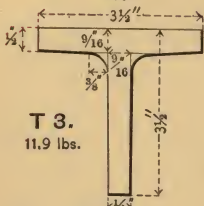
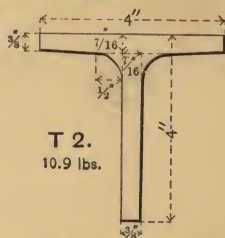
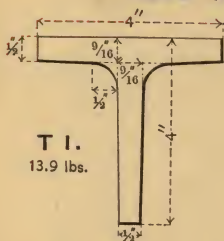


A 800.

0.9 lbs.



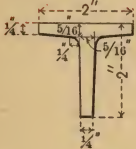
TEES WITH EQUAL LEGS



TEES WITH EQUAL LEGS

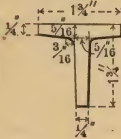
T 15.

3.7 lbs.



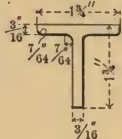
T 16.

3.2 lbs.



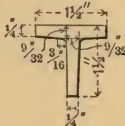
T 500.

2.1 lbs.



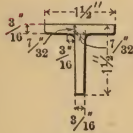
T 17.

2.6 lbs.



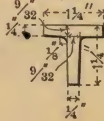
T 18.

2.0 lbs.



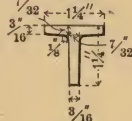
T 19.

2.1 lbs.



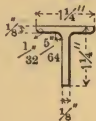
T 20.

1.7 lbs.



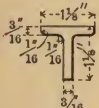
T 501.

1.0 lbs.



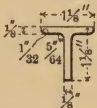
T 502.

1.3 lbs.



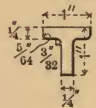
T 503.

1.0 lbs.



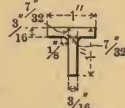
T 504.

1.5 lbs.



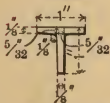
T 21.

1.3 lbs.



T 22.

1.0 lbs.



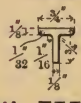
T 505.

0.7 lbs.



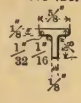
T 506.

0.6 lbs.



T 507.

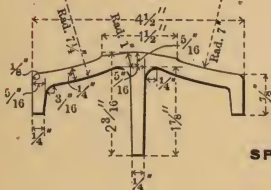
0.5 lbs.



HAND RAIL TEES

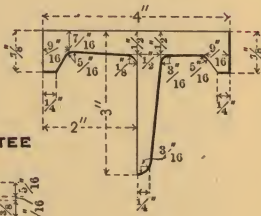
T 154.

7.0 lbs.



T 156.

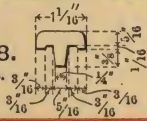
11.3 lbs.



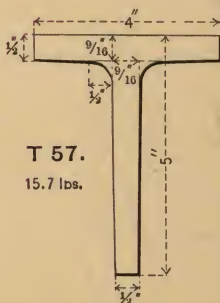
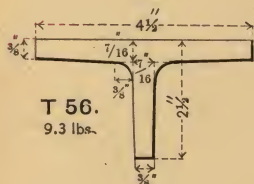
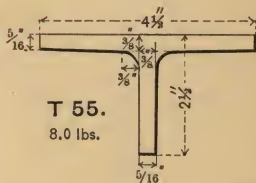
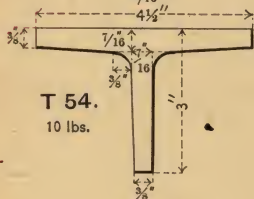
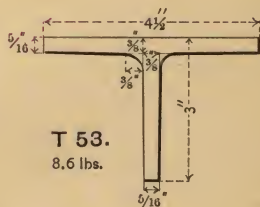
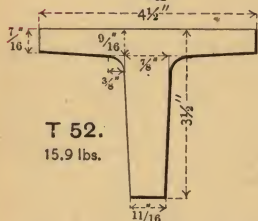
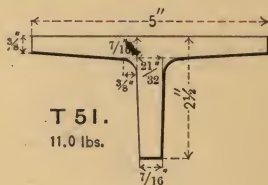
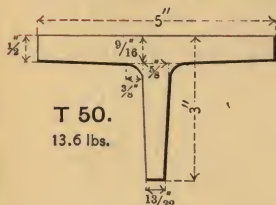
SPECIAL TEE

T 508.

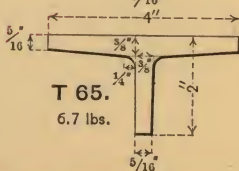
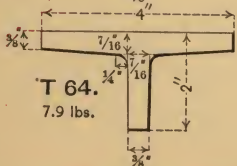
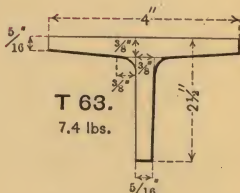
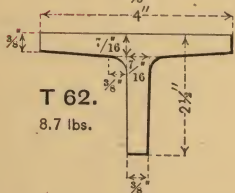
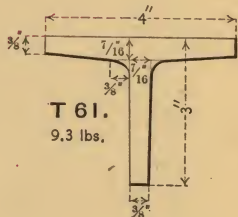
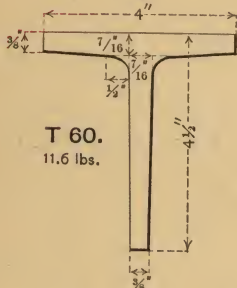
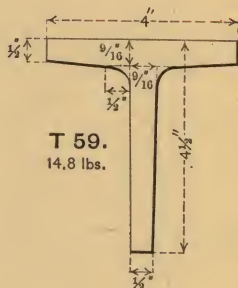
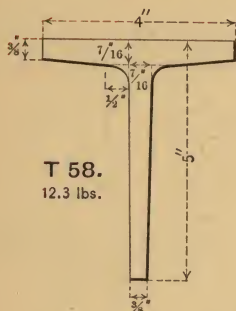
1.5 lbs.



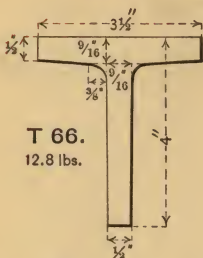
TEES WITH UNEQUAL LEGS



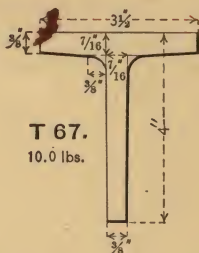
TEES WITH UNEQUAL LEGS



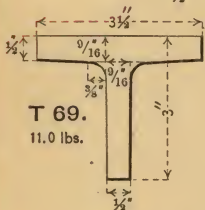
TEES WITH UNEQUAL LEGS



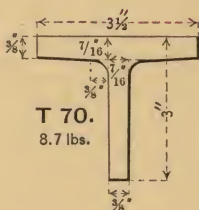
T 66.
12.8 lbs.



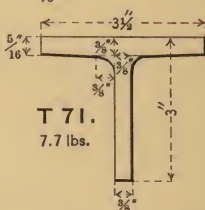
T 67.
10.0 lbs.



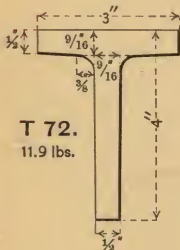
T 69.
11.0 lbs.



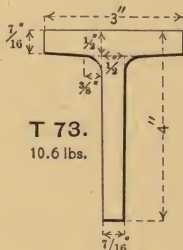
T 70.
8.7 lbs.



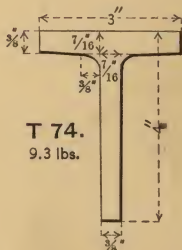
T 71.
7.7 lbs.



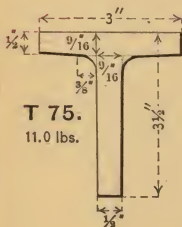
T 72.
11.9 lbs.



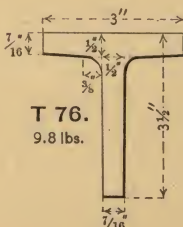
T 73.
10.6 lbs.



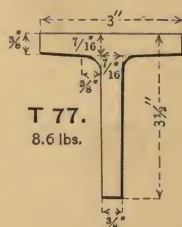
T 74.
9.3 lbs.



T 75.
11.0 lbs.

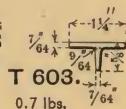
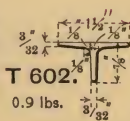
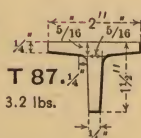
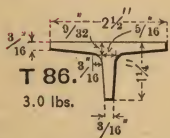
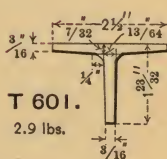
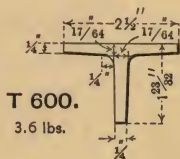
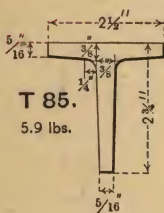
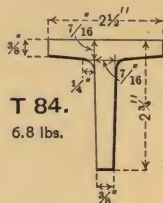
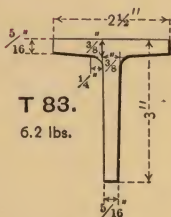
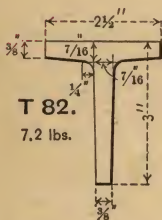
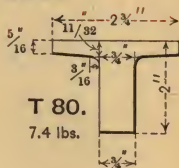
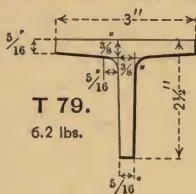
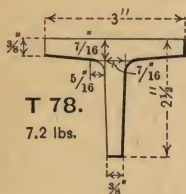


T 76.
9.8 lbs.

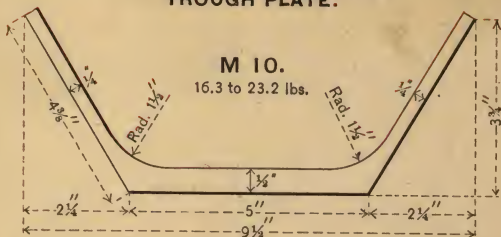


T 77.
8.6 lbs.

TEES WITH UNEQUAL LEGS

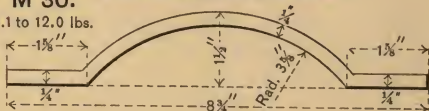


PLATES TROUGH PLATE.



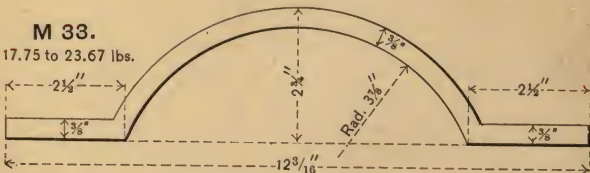
CORRUGATED PLATES.

M 30.
8.1 to 12.0 lbs.



M 33.

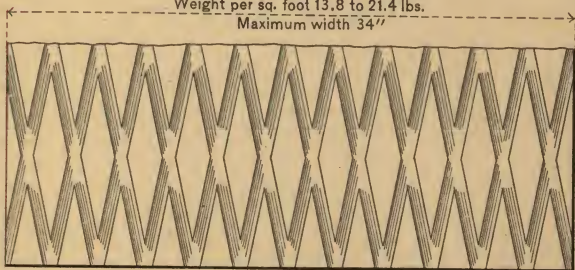
17.75 to 23.67 lbs.



CHECKERED PLATE.

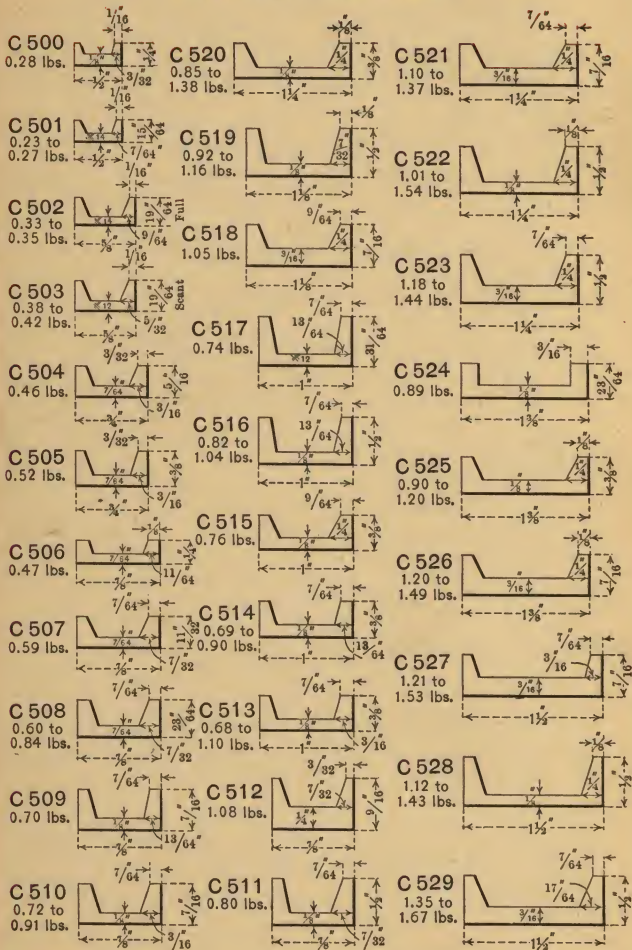
M 51.

Weight per sq. foot 13.8 to 21.4 lbs.
Maximum width 34"



5/16" to 1/2" thick

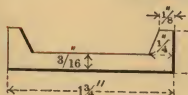
SPECIAL CHANNELS



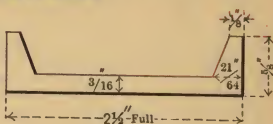
Half Size

SPECIAL CHANNELS

C 530

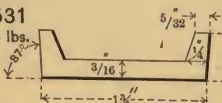
1.43 to
1.81 lbs.


C 539

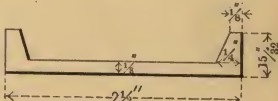
2.27 to
3.86 lbs.


C 531

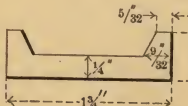
1.55 lbs.



C 538

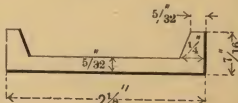
1.50 to
1.77 lbs.


C 532

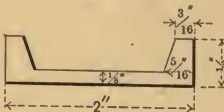
1.86 to
2.23 lbs.


C 537

1.50 lbs.



C 533

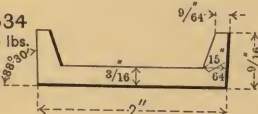
1.49 to
2.34 lbs.


C 536

1.40 to
2.25 lbs.

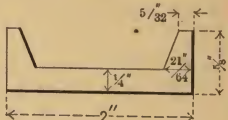

C 534

1.75 lbs.



C 535

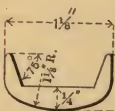
2.32 lbs.



ROUND BACK CHANNELS

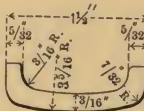
C 540

1.10 lbs.



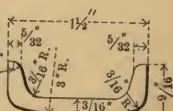
C 541

1.33 lbs.



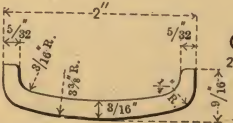
C 111

1.30 lbs.



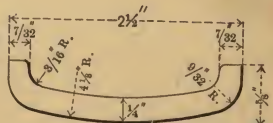
C 542

1.67 lbs.



C 543

2.40 lbs.

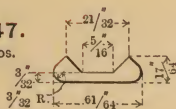


Half Size

FENDER CHANNELS

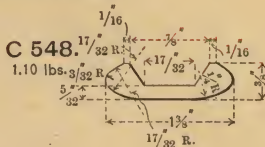
C 547.

0.54 lbs.



C 548.

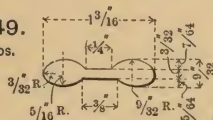
1.10 lbs.



DASH CHANNELS

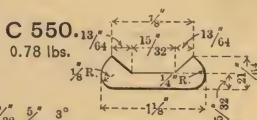
C 549.

0.78 lbs.



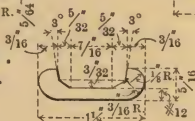
C 550.

0.78 lbs.



C 551.

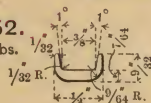
0.65 lbs.



BICYCLE CHANNELS

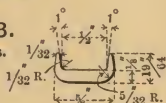
C 552.

0.20 lbs.



C 553.

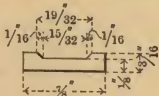
0.28 lbs.



STOVE LEG CHANNEL

C 554.

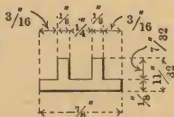
0.45 lbs.



WINGED CHANNEL

C 555.

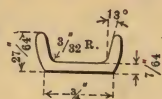
0.60 lbs.



STANDARD RUBBER TIRE CHANNELS

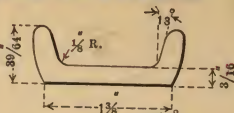
C 600.

0.6 lbs.



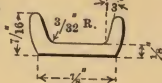
C 605.

1.5 lbs.



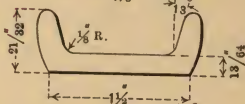
C 601.

0.75 lbs.



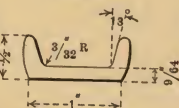
C 606.

1.8 lbs.



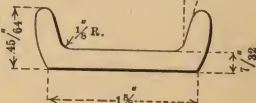
C 602.

0.85 lbs.



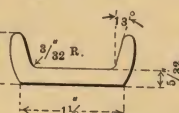
C 607.

2.0 lbs.



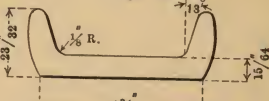
C 603.

1.0 lbs.



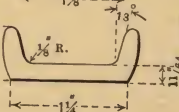
C 608.

2.2 lbs.



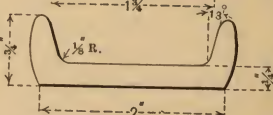
C 604.

1.2 lbs.



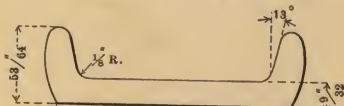
C 609.

2.7 lbs.



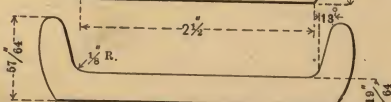
C 610.

3.6 lbs.



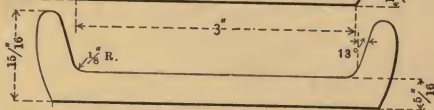
C 611.

4.3 lbs.



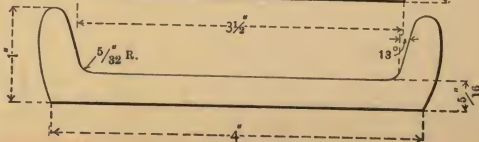
C 612.

5.4 lbs.



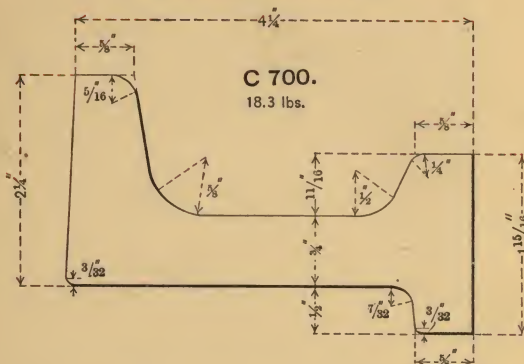
C 613.

6.7 lbs.



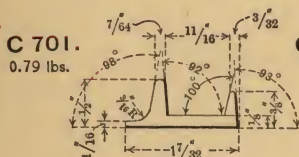
Half Size

SPECIAL CHANNEL

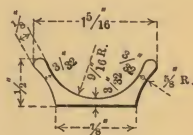


CARRIER TRACK

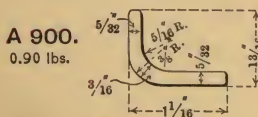
CUSHION TIRE



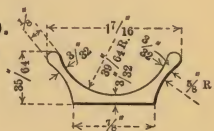
C 1125.
0.78 lbs.



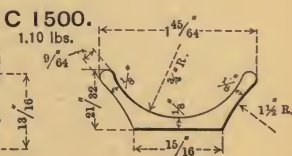
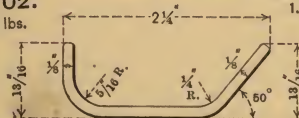
HAY CARRIER TRACK



C 1250.
0.82 lbs.



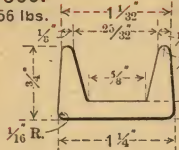
C 702.
1.26 lbs.



ODD CHANNELS

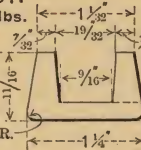
C 560.

1.56 lbs.



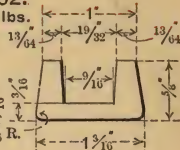
C 561.

1.68 lbs.



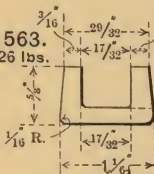
C 562.

1.46 lbs.



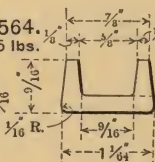
C 563.

1.26 lbs.



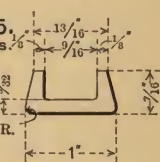
C 564.

1.05 lbs.



C 565.

0.82 lbs.

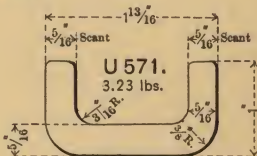


U-BARS



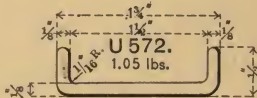
U 570.

5.65 lbs.



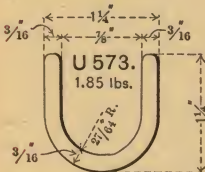
U 571.

3.23 lbs.



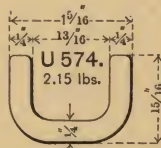
U 572.

1.05 lbs.



U 573.

1.85 lbs.



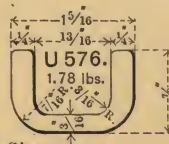
U 574.

2.15 lbs.



U 575.

1.95 lbs.



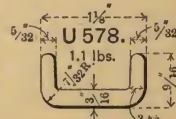
U 576.

1.78 lbs.



U 577.

1.63 lbs.



U 578.

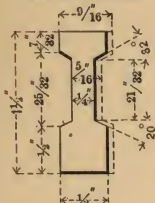
1.1 lbs.

Half Size

CULTIVATOR BEAMS

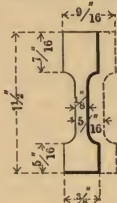
B 500.

1.94 to 2.26 lbs.



B 501.

1.39 to 2.35 lbs.



B 504.

1.04 lbs.



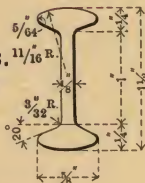
B 502.

1.80 lbs.



B 503.

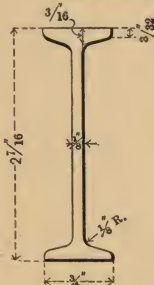
1.26 lbs.



HARROW I-BEAMS

B 505.

1.64 lbs.



B 506.

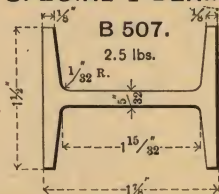
1.63 lbs.



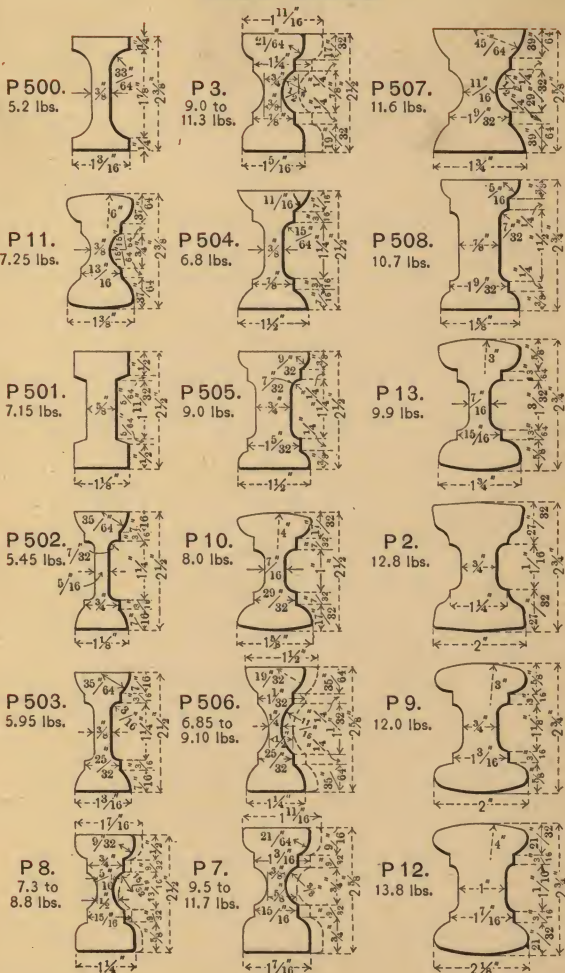
SPECIAL I-BEAM

B 507.

2.5 lbs.

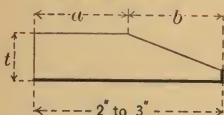


PLOW BEAMS

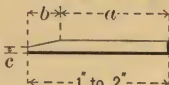


BEVEL NOSE

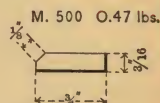
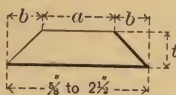
BEVEL NOSE



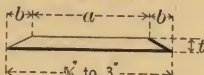
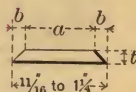
SAND BAND



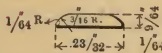
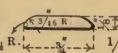
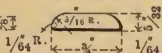
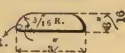
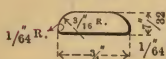
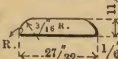
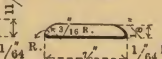
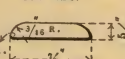
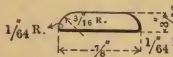
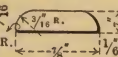
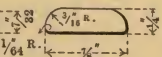
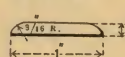
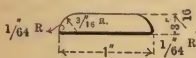
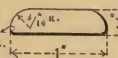
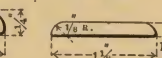
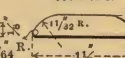
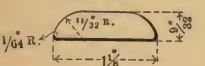
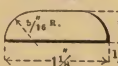
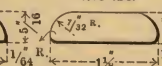
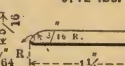
CHAMFERED BAR

BEVEL EDGE
AND BEVEL SHAFT

TONGUE CAP

BEVEL EDGE
WAGON BOX

ROUND BEVEL EDGE

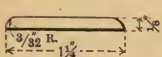
M 630.
0.32 lbs.M 631.
0.30 lbs.M 632.
0.35 lbs.M 633.
0.43 lbs.M 634.
0.51 lbs.M 635.
0.46 lbs.M 636.
0.34 lbs.M 637.
0.41 lbs.M 638.
0.51 lbs.M 639.
0.60 lbs.M 640.
0.69 lbs.M 641.
0.35 lbs.M 642.
0.59 lbs.M 643.
0.80 lbs.M 644.
0.48 lbs.M 645.
0.70 lbs.M 646.
0.90 lbs.M 647.
1.05 lbs.M 648.
1.13 lbs.M 649.
0.42 lbs.

Half Size

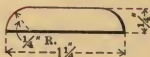
ROUND BEVEL EDGE

M 650.

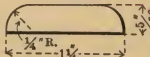
0.53 lbs.


M 651.

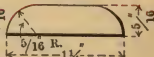
0.97 lbs.


M 652.

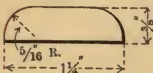
1.24 lbs.


M 653.

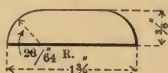
1.19 lbs.


M 654.

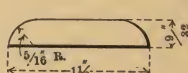
1.45 lbs.


M 655.

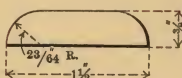
1.53 lbs.


M 656.

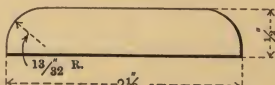
1.36 lbs.


M 657.

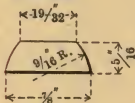
1.71 lbs.


M 658.

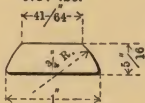
4.00 lbs.


M 659.

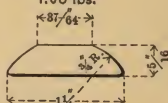
0.78 lbs.


M 660.

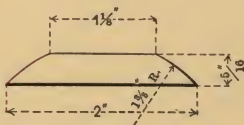
0.87 lbs.


M 661.

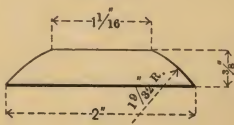
1.08 lbs.


M 662.

1.72 lbs.


M 663.

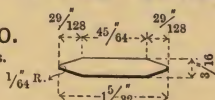
2.11 lbs.



DOUBLE BEVEL

M 670.

0.60 lbs.

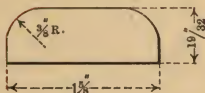


Half Size

CYLINDER LAG

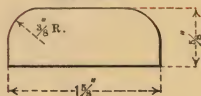
M 680.

3.07 lbs.



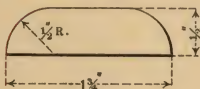
M 681.

3.25 lbs.



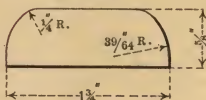
M 682.

2.61 lbs.



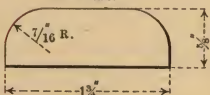
M 683.

3.41 lbs.



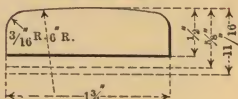
M 684.

3.44 lbs.



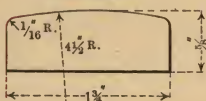
M 685.

2.92 to 4.04 lbs.



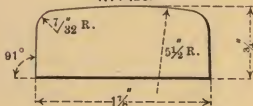
M 686.

3.54 lbs.



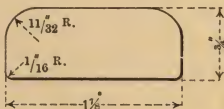
M 687.

4.71 lbs.



M 688.

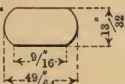
4.61 lbs.



SPECIAL ROUND EDGE FLATS

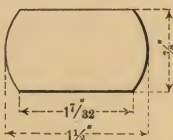
M 690.

0.97 lbs.



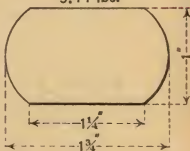
M 692.

4.20 lbs.



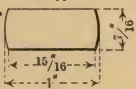
M 693.

5.44 lbs.



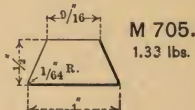
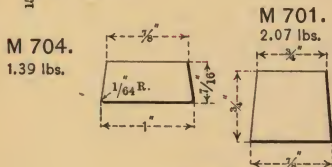
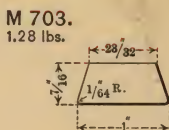
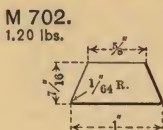
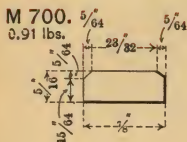
M 691.

1.46 lbs.

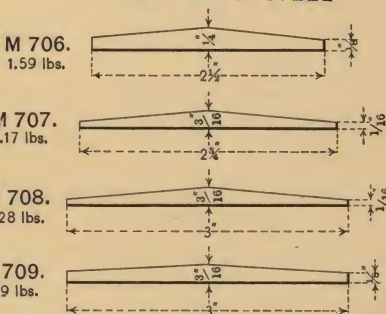


Half Size

SPECIAL BEVELS

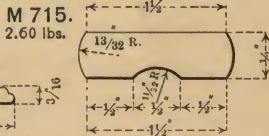
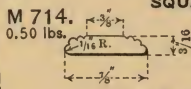
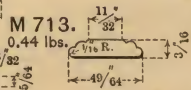
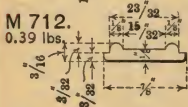
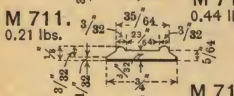
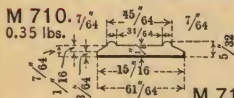


DRILL POINT STEEL

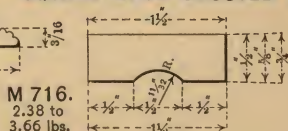


BEADED STOVE LEGS

ROUND EDGE GROOVED TIRE



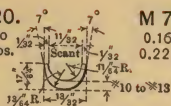
SQUARE EDGE GROOVED TIRE



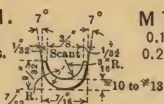
Half Size

CRESCENT

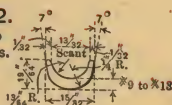
M 720.

0.15 to
0.21 lbs.

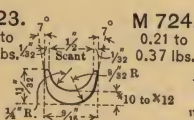
M 721.

0.16 to
0.22 lbs.

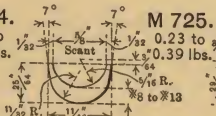
M 722.

0.19 to
0.27 lbs.

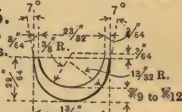
M 723.

0.23 to
0.27 lbs.

M 724.

0.21 to
0.37 lbs.

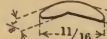
M 725.

0.23 to
0.39 lbs.SPECIAL
CRESCENT

CONCAVE CONVEX

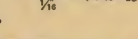
M 726.

0.34 lbs.

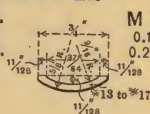


M 730.

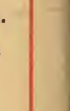
0.30 lbs.



M 740.

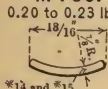
0.15 to
0.20 lbs.

M 750.

0.15 to
0.24 lbs.

M 760.

0.20 to 0.23 lbs.



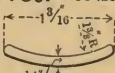
M 765.

0.23 lbs.



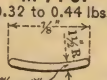
CRESCENT HAME

M 780.-0.53 lbs.



M 770.

0.32 to 0.44 lbs.



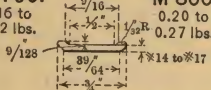
M 775.

0.35 to 0.49 lbs.

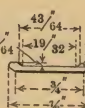


BEVELED HAME

M 790.

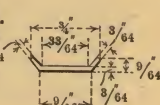
0.16 to
0.22 lbs.

M 800.

0.20 to 3/4
0.27 lbs.

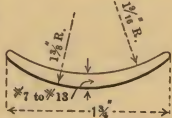
M 795.

0.17 lbs.



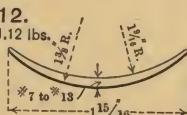
POLE CAP OR NECK YOKE

M 810.

0.46 to
1.0 lbs.

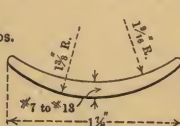
M 812.

0.52 to 1.12 lbs.



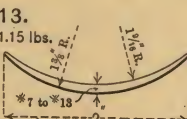
M 811.

0.5 to 1.1 lbs.



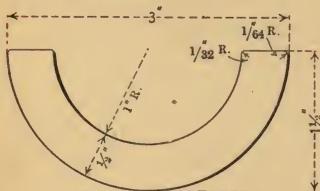
M 813.

0.53 to 1.15 lbs.



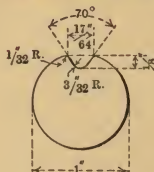
HOLLOW HALF ROUND

M 820. - 6.68 lbs.

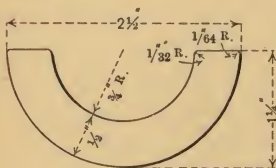


GROOVED ROUND

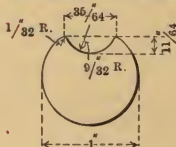
M 830. - 2.6 lbs.



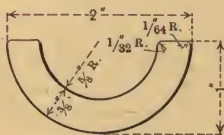
M 821. - 5.34 lbs.



M 831. - 2.45 lbs.

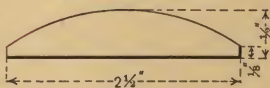


M 822. - 3.25 lbs.



SPECIAL HALF OVAL

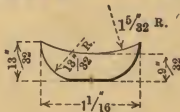
M 840. - 3.20 lbs.



GROOVED HALF OVAL

M 850.

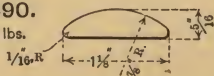
1.0 lbs.



BLUNT HALF OVAL

M 890.

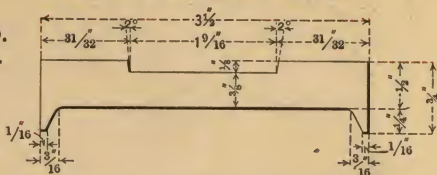
0.95 lbs.



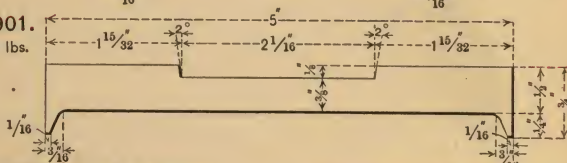
Half Size

SWITCH FRICTION PLATE

M 900.
5.50 lbs.

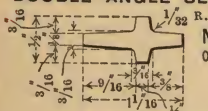


M 901.
7.84 lbs.



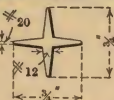
DOUBLE ANGLE SECTION

M 902.
0.76 lbs.



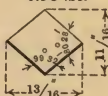
STAR SECTION

M 903.
0.36 lbs.

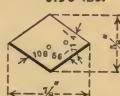


DIAMOND HARROW TOOTH

M 904.
0.95 lbs.

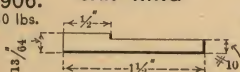


M 905.
0.93 lbs.

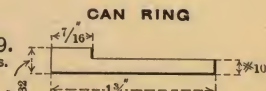


M 906.
0.80 lbs.

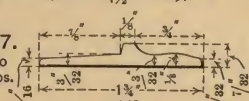
CAN RING



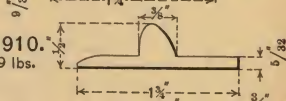
M 909.
1.02 lbs.



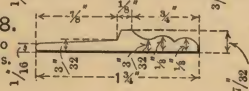
M 907.
0.63 to
1.46 lbs.



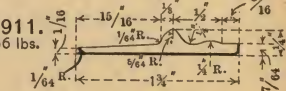
M 910.
1.19 lbs.



M 908.
0.63 to
1.46 lbs.

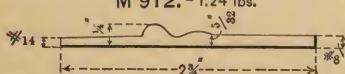


M 911.
0.66 lbs.

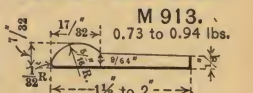


BEADED HUB BAND

M 912. - 1.24 lbs.



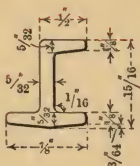
M 913.
0.73 to 0.94 lbs.



J-BARS

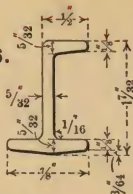
M 915.

1.1 lbs.



M 916.

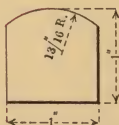
1.25 lbs.



D OR LINK IRON

M 917.

3.2 lbs.



M 918.

5.0 to 6.0 lbs.



PIANO BARS

M 919.

0.63 lbs.



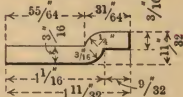
M 920.

0.71 lbs.



M 921.

0.88 lbs.

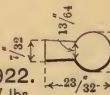


SICKLE BAR

KEY STEEL

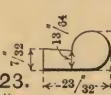
M 922.

0.67 lbs.



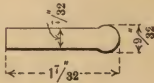
M 923.

0.70 lbs.



M 924.

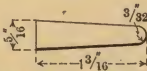
0.92 lbs.



WEDGE BAR

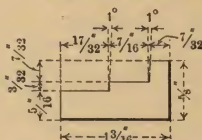
M 925.

1.0 lbs.



M 926.

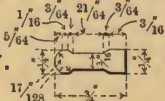
1.64 lbs.



BICYCLE WRENCH

M 927.

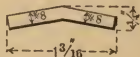
0.58 lbs.



RETAINING RING

M 928.

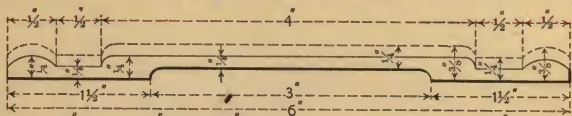
0.67 lbs.



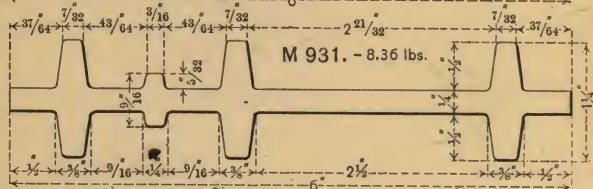
Half Size

HANGER BAR

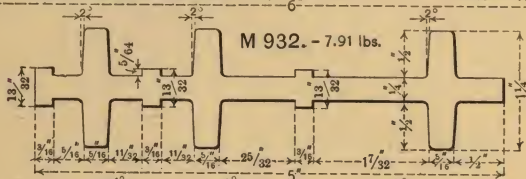
M 930. - 3.30 to 5.84 lbs.



M 931. - 8.36 lbs.

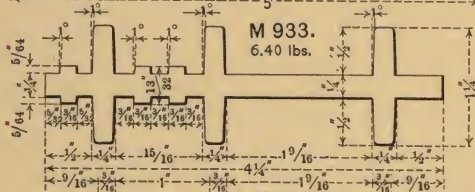


M 932. - 7.91 lbs.



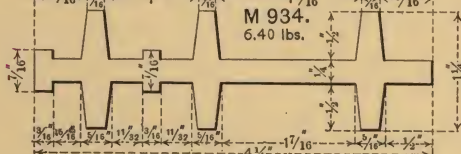
M 933.

6.40 lbs.



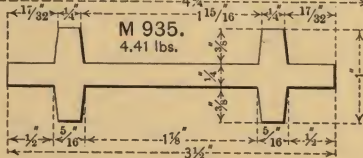
M 934.

6.40 lbs.



M 935.

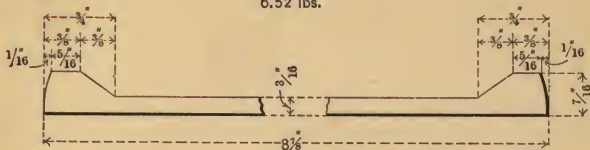
4.41 lbs.



BEADED PLANTER TIRE

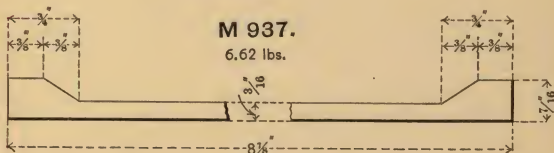
M 936.

6.52 lbs.



M 937.

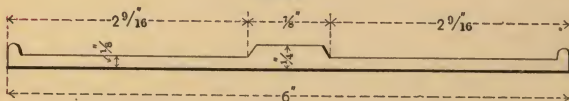
6.62 lbs.



BEADED AND RIBBED PLANTER TIRE

M 938.

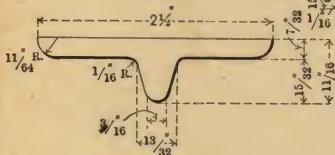
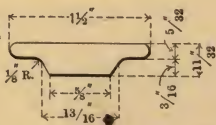
2.98 lbs.



RIBBED TIRE

M 939.

1.26 lbs.



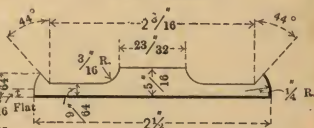
M 940.

2.28 lbs.

Half Size

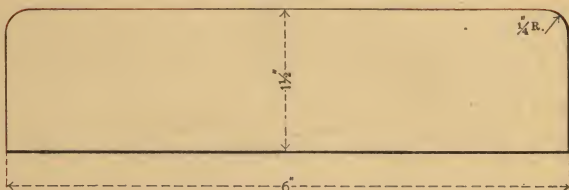
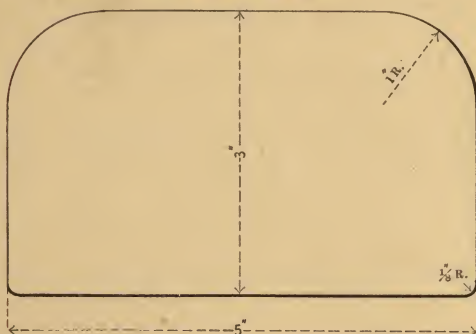
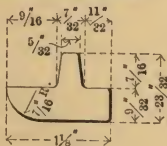
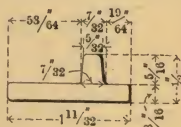
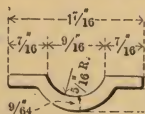
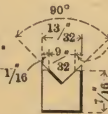
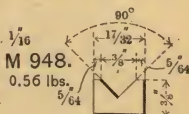
BEADED TIRE

FLAT BACK



M 941.

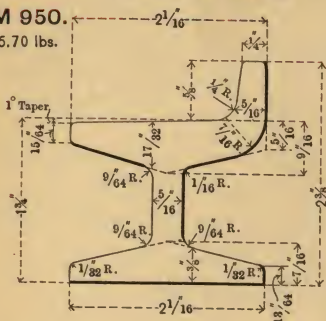
1.73 lbs.

CAR FOLLOWER**M 942.- 30.51 lbs.****CRANE TRACK RAIL****M 943.- 49.5 lbs.****STANWOOD FRONT****M 944.**
1.22 lbs.**STANWOOD BACK****M 945.**
1.05 lbs.**FLANGED CONCAVE CONVEX****M 946.**
0.86 lbs.**M 947.**
0.54 lbs.**GROOVE BARS****M 948.**
0.56 lbs.

Half Size

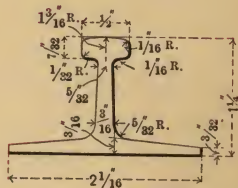
GIRDER RAIL

M 950.
6.70 lbs.



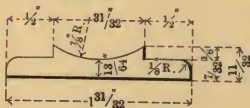
HAY CARRIER
TRACK
M 951.

1.89 lbs.

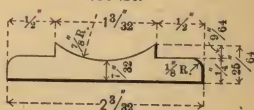


AXLE CLIP

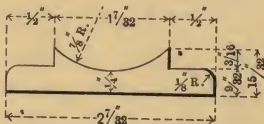
M 952.
1.55 lbs.



M 953.
1.86 lbs.

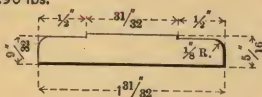


M 954.
2.27 lbs.

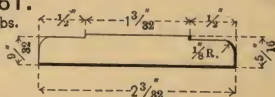


M 960.
1.96 lbs.

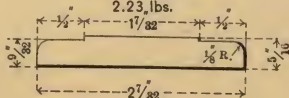
SPECIAL NUT SECTION



M 961.
2.10 lbs.



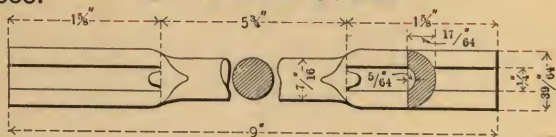
M 962.
2.23 lbs.



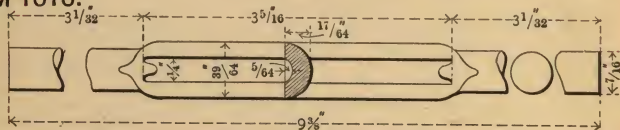
Half Size

M 1000.

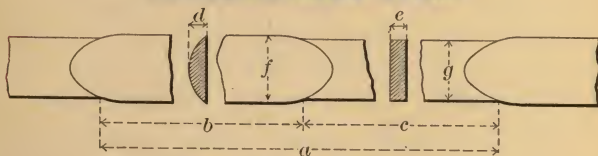
BIT MOUTH STEEL



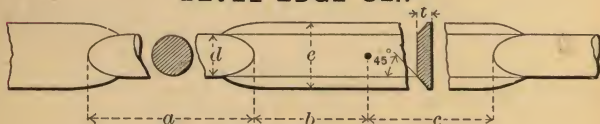
M 1010.



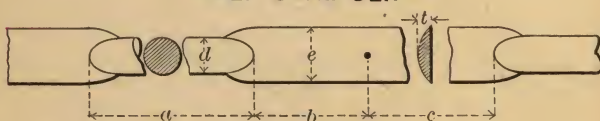
CONCORD HAME STRAP



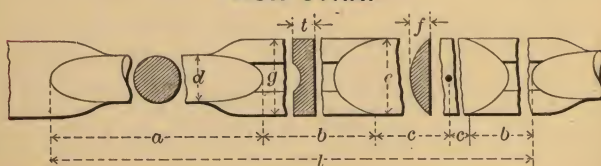
BEVEL EDGE CLIP



HALF OVAL CLIP



BOX STRAP



Half Size

I-BEAMS

Section Index	Depth of Beam Inches	Weight per Foot Pounds	Flange Width		Web Thickness		Page No. of Section
			Inches and Decimal Parts	Inches and Fractional Parts	Decimal Parts of Inch	Fractional Parts of Inch	
B 1	24	100.00	7.254	7 $\frac{1}{4}$.754	3 $\frac{1}{4}$	1
		95.00	7.192	7 $\frac{3}{8}$	.692	1 $\frac{1}{8}$
		90.00	7.131	7 $\frac{1}{8}$	.631	5 $\frac{3}{8}$
		85.00	7.070	7 $\frac{1}{8}$	.570	1 $\frac{1}{8}$
		80.00	7.000	7	.500	1 $\frac{1}{2}$	
B 2	20	100.00	7.284	7 $\frac{9}{32}$.884	7 $\frac{3}{8}$	2
		95.00	7.210	7 $\frac{13}{32}$	.810	6 $\frac{1}{4}$
		90.00	7.137	7 $\frac{9}{16}$	.737	4 $\frac{7}{8}$
		85.00	7.063	7 $\frac{1}{8}$	.663	4 $\frac{1}{2}$
		80.00	7.000	7	.600	3 $\frac{3}{4}$	
B 3	20	75.00	6.399	6 $\frac{13}{32}$.649	2 $\frac{1}{8}$	2
		70.00	6.325	6 $\frac{11}{32}$	.575	2 $\frac{1}{4}$
		65.00	6.250	6 $\frac{3}{4}$	.500	1 $\frac{1}{2}$
B 80	18	70.00	6.259	6 $\frac{1}{4}$.719	3 $\frac{1}{2}$	3
		65.00	6.177	6 $\frac{1}{4}$	.637	3 $\frac{1}{8}$
		60.00	6.095	6 $\frac{3}{32}$	.555	2 $\frac{7}{8}$
		55.00	6.000	6	.460	2 $\frac{1}{4}$	
B 4	15	100.00	6.774	6 $\frac{25}{32}$	1.184	1 $\frac{1}{8}$	3
		95.00	6.675	6 $\frac{23}{32}$	1.085	1 $\frac{1}{4}$	
		90.00	6.577	6 $\frac{27}{32}$	.987	1 $\frac{1}{8}$
		85.00	6.479	6 $\frac{25}{32}$	.889	1 $\frac{1}{4}$
		80.00	6.400	6 $\frac{3}{4}$	.810	1 $\frac{1}{2}$
B 5	15	75.00	6.292	6 $\frac{19}{32}$.882	7 $\frac{1}{8}$	3
		70.00	6.194	6 $\frac{1}{8}$	.784	6 $\frac{1}{4}$
		65.00	6.096	6 $\frac{3}{32}$	.686	5 $\frac{1}{4}$
		60.00	6.000	6	.590	4 $\frac{3}{4}$	
B 7	15	55.00	5.746	5 $\frac{3}{4}$.656	2 $\frac{1}{8}$	3
		50.00	5.648	5 $\frac{21}{32}$	.558	2 $\frac{1}{4}$
		45.00	5.550	5 $\frac{23}{32}$	.460	2 $\frac{1}{8}$
		42.00	5.500	5 $\frac{1}{2}$	.410	2 $\frac{1}{4}$
B 8	12	55.00	5.612	5 $\frac{9}{32}$.822	1 $\frac{1}{4}$	4
		50.00	5.489	5 $\frac{23}{32}$	.699	1 $\frac{1}{8}$
		45.00	5.366	5 $\frac{25}{32}$	.576	1 $\frac{1}{8}$
		40.00	5.250	5 $\frac{1}{4}$	.460	1 $\frac{1}{4}$

Weights in heavy print are standard, others are special

I-BEAMS—Continued

Section Index	Depth of Beam Inches	Weight per Foot Pounds	Flange Width		Web Thickness		Page No. of Section
			Inches and Decimal Parts	Inches and Fractional Parts	Decimal Parts of Inch	Fractional Parts of Inch	
B 9	12	35.00	5.086	5 ³ / ₃₂	.436	⁷ / ₁₆	4
		31.50	5.000	5	.350	¹¹ / ₃₂	
B 11	10	40.00	5.099	5 ³ / ₃₂	.749	³ / ₄	4
		35.00	4.952	4 ⁹ / ₁₆	.602	⁵ / ₈	
		30.00	4.805	4 ¹³ / ₁₆	.455	³ / ₈	
		25.00	4.660	4 ³ / ₃₂	.310	¹ / ₁₆	
B 13	9	35.00	4.772	4 ⁹ / ₁₆	.732	⁴ / ₇	4
		30.00	4.609	4 ³ / ₈	.569	⁷ / ₁₆	
		25.00	4.446	4 ³ / ₈	.406	⁵ / ₁₆	
		21.00	4.330	4 ³ / ₁₆	.290	³ / ₁₆	
B 15	8	25.50	4.271	4 ¹ / ₄	.541	¹ / ₂	5
		23.00	4.179	4 ¹ / ₄	.449	³ / ₈	
		20.50	4.087	4 ³ / ₈	.357	³ / ₈	
		18.00	4.000	4	.270	⁵ / ₁₆	
B 17	7	20.00	3.868	3 ⁷ / ₈	.458	¹ / ₂	5
		17.50	3.763	3 ⁴ / ₈	.353	⁵ / ₁₆	
		15.00	3.660	3 ² / ₈	.250	¹ / ₄	
B 19	6	17.25	3.575	3 ⁷ / ₁₆	.475	³ / ₄	5
		14.75	3.452	3 ⁹ / ₁₆	.352	³ / ₈	
		12.25	3.330	3 ⁵ / ₁₆	.230	⁵ / ₁₆	
B 21	5	14.75	3.294	3 ⁹ / ₁₆	.504	¹ / ₂	5
		12.25	3.147	3 ⁹ / ₁₆	.357	¹ / ₂	
		9.75	3.000	3	.210	¹ / ₄	
B 23	4	10.50	2.880	2 ⁷ / ₈	.410	¹ / ₂	5
		9.50	2.807	2 ¹³ / ₁₆	.337	¹ / ₂	
		8.50	2.733	2 ¹ / ₄	.263	³ / ₈	
		7.50	2.660	2 ¹ / ₄	.190	³ / ₁₆	
B 77	3	7.50	2.521	2 ² / ₈	.361	² / ₈	5
		6.50	2.423	2 ² / ₈	.263	¹ / ₄	
		5.50	2.330	2 ¹ / ₈	.170	³ / ₁₆	

Weights in heavy print are standard, others are special

CHANNELS

Section Index	Depth of Channel Inches	Weight per Foot Pounds	Flange Width		Web Thickness		Page No. of Section
			Inches and Decimal Parts	Inches and Fractional Parts	Decimal Parts of Inch	Fractional Parts of Inch	
C 1	15	55.00	3.818	$3\frac{1}{2}$.818	$\frac{1}{2}$	6
		50.00	3.720	$3\frac{1}{2}$	.720	$\frac{1}{2}$
		45.00	3.622	$3\frac{1}{2}$	.622	$\frac{1}{2}$
		40.00	3.524	$3\frac{1}{2}$	.524	$\frac{1}{2}$
		35.00	3.426	$3\frac{1}{2}$	.426	$\frac{1}{2}$
C 2	12	33.00	3.400	$3\frac{1}{2}$.400	$\frac{1}{2}$	6
		40.00	3.418	$3\frac{1}{2}$	.758	$\frac{1}{2}$
		35.00	3.296	$3\frac{1}{2}$	.686	$\frac{1}{2}$
		30.00	3.173	$3\frac{1}{2}$	.513	$\frac{1}{2}$
		25.00	3.050	$3\frac{1}{2}$	.390	$\frac{1}{2}$
C 3	10	20.50	2.940	$2\frac{1}{2}$.280	$\frac{1}{2}$	6
		35.00	3.183	$3\frac{1}{2}$	.823	$\frac{1}{2}$
		30.00	3.036	$3\frac{1}{2}$	.676	$\frac{1}{2}$
		25.00	2.889	$2\frac{1}{2}$	.529	$\frac{1}{2}$
		20.00	2.742	$2\frac{1}{2}$	.382	$\frac{1}{2}$
C 4	9	15.00	2.600	$2\frac{1}{2}$.240	$\frac{1}{2}$	6
		25.00	2.815	$2\frac{1}{2}$	.615	$\frac{1}{2}$
		20.00	2.652	$2\frac{1}{2}$	.452	$\frac{1}{2}$
		15.00	2.488	$2\frac{1}{2}$	.288	$\frac{1}{2}$
		13.25	2.430	$2\frac{1}{2}$	.230	$\frac{1}{2}$
C 5	8	21.25	2.622	$2\frac{1}{2}$.582	$\frac{1}{2}$	7
		18.75	2.580	$2\frac{1}{2}$	.490	$\frac{1}{2}$
		16.25	2.439	$2\frac{1}{2}$	.399	$\frac{1}{2}$
		13.75	2.347	$2\frac{1}{2}$	.307	$\frac{1}{2}$
		11.25	2.260	$2\frac{1}{2}$	.220	$\frac{1}{2}$
C 6	7	19.75	2.513	$2\frac{1}{2}$.633	$\frac{1}{2}$	7
		17.25	2.408	$2\frac{1}{2}$	.528	$\frac{1}{2}$
		14.75	2.303	$2\frac{1}{2}$	.423	$\frac{1}{2}$
		12.25	2.198	$2\frac{1}{2}$	.318	$\frac{1}{2}$
		9.75	2.090	$2\frac{1}{2}$	.210	$\frac{1}{2}$
C 7	6	15.50	2.283	$2\frac{1}{2}$.563	$\frac{1}{2}$	7
		13.00	2.160	$2\frac{1}{2}$	.440	$\frac{1}{2}$
		10.50	2.038	$2\frac{1}{2}$	.318	$\frac{1}{2}$
		8.00	1.920	$1\frac{1}{2}$	.200	$\frac{1}{2}$
C 8	5	11.50	2.037	$2\frac{1}{2}$.477	$\frac{1}{2}$	7
		9.00	1.890	$1\frac{1}{2}$	.330	$\frac{1}{2}$
		6.50	1.750	$1\frac{3}{4}$	.190	$\frac{1}{2}$
C 9	4	7.25	1.725	$1\frac{3}{4}$.325	$\frac{1}{2}$	7
		6.25	1.652	$1\frac{3}{4}$	.252	$\frac{1}{2}$
		5.25	1.580	$1\frac{3}{4}$	.180	$\frac{1}{2}$
C 72	3	6.00	1.602	$1\frac{3}{4}$.362	$\frac{1}{2}$	7
		5.00	1.504	$1\frac{1}{2}$	.264	$\frac{1}{2}$
		4.00	1.410	$1\frac{1}{2}$	.170	$\frac{1}{2}$

Weights in heavy print are standard, others are special

CAR-TRUCK, SPECIAL ROAD AND SHIP- BUILDING CHANNELS

Section Index	Depth of Channel Inches	Weight per Foot Pounds		Flange Width Inches		Web Thickness Inches		Increase of Web and Flange for each lb. increase of weight	Page No. of Section
		Min.	Max.	Min.	Max.	Min.	Max.		
C 20	13	32.0	50.0	4.00	4.42	.38	.80	.023	8
C 180	12	26.25	....	3.42	....	.38	...	....	8
C 109	6	15.0	....	3.50	....	.35	...	....	8
C 120	7	20.9	23.3	3.45	3.55	.45	.55	.042	8
C 130	8	23.8	26.5	3.50	3.60	.50	.60	.037	8
C 140	9	28.6	34.7	3.80	4.00	.45	.65	.033	8
C 150	10	27.2	30.6	3.50	3.60	.50	.60	.029	9
C 150b	10	21.8	....	3.38	....	.38	...	....	9
C 170	12	40.0	48.4	3.90	4.10	.60	.80	.025	9
Rolls not turned up for the following Channel									
C 160	10	31.8	36.9	3.85	4.00	.50	.65	.029	9

STANDARD Z-BARS

Section Index	Size, Inches			Thickness of Metal Inches	Weight per Foot Pounds	Page No. of Section
	Flange	Web	Flange			
Z 1	3 1/2	6	3 1/2	3/8	15.6	10
	3 9/16	6 1/16	3 9/16	7/16	18.3	
	3 5/8	6 1/8	3 5/8	1/2	21.0	
Z 2	3 1/2	6	3 1/2	9/16	22.7	10
	3 9/16	6 1/16	3 9/16	5/8	25.4	
	3 5/8	6 1/8	3 5/8	11/16	28.0	
Z 3	3 1/2	6	3 1/2	3/4	29.3	10
	3 9/16	6 1/16	3 9/16	13/16	31.9	
	3 5/8	6 1/8	3 5/8	7/8	34.6	
Z 4	3 1/4	5	3 1/4	5/16	11.6	10
	3 5/16	5 1/16	3 5/16	3/8	13.9	
	3 3/8	5 1/8	3 3/8	7/16	16.4	

STANDARD Z-BARS—Continued

Section Index	Size, Inches			Thickness of Metal Inches	Weight per Foot Pounds	Page No. of Section
	Flange	Web	Flange			
Z 5	$3\frac{1}{4}$	5	$3\frac{1}{4}$	$\frac{1}{2}$	17.9	10
	$3\frac{5}{16}$	$5\frac{1}{8}$	$3\frac{5}{16}$	$\frac{9}{16}$	20.2	
	$3\frac{3}{8}$	$5\frac{1}{8}$	$3\frac{3}{8}$	$\frac{5}{8}$	22.6	
Z 6	$3\frac{1}{4}$	5	$3\frac{1}{4}$	$\frac{11}{16}$	23.7	10
	$3\frac{5}{16}$	$5\frac{1}{8}$	$3\frac{5}{16}$	$\frac{3}{4}$	26.0	
	$3\frac{3}{8}$	$5\frac{1}{8}$	$3\frac{3}{8}$	$\frac{13}{16}$	28.3	
Z 7	$3\frac{1}{8}$	4	$3\frac{1}{8}$	$\frac{1}{4}$	8.2	11
	$3\frac{1}{8}$	$4\frac{1}{8}$	$3\frac{1}{8}$	$\frac{5}{16}$	10.3	
	$3\frac{3}{16}$	$4\frac{1}{8}$	$3\frac{3}{16}$	$\frac{3}{8}$	12.4	
Z 8	$3\frac{1}{8}$	4	$3\frac{1}{8}$	$\frac{7}{16}$	13.8	11
	$3\frac{1}{8}$	$4\frac{1}{8}$	$3\frac{1}{8}$	$\frac{1}{2}$	15.8	
	$3\frac{3}{16}$	$4\frac{1}{8}$	$3\frac{3}{16}$	$\frac{9}{16}$	17.9	
Z 9	$3\frac{1}{8}$	4	$3\frac{1}{8}$	$\frac{5}{8}$	18.9	11
	$3\frac{1}{8}$	$4\frac{1}{8}$	$3\frac{1}{8}$	$\frac{11}{16}$	20.9	
	$3\frac{3}{16}$	$4\frac{1}{8}$	$3\frac{3}{16}$	$\frac{3}{4}$	23.0	
Z 10	$2\frac{11}{16}$	3	$2\frac{11}{16}$	$\frac{1}{4}$	6.7	11
	$2\frac{3}{4}$	$3\frac{1}{8}$	$2\frac{3}{4}$	$\frac{5}{16}$	8.4	
Z 11	$2\frac{11}{16}$	3	$2\frac{11}{16}$	$\frac{3}{8}$	9.7	11
	$2\frac{3}{4}$	$3\frac{1}{8}$	$2\frac{3}{4}$	$\frac{7}{16}$	11.4	
Z 12	$2\frac{11}{16}$	3	$2\frac{11}{16}$	$\frac{1}{2}$	12.5	11
	$2\frac{3}{4}$	$3\frac{1}{8}$	$2\frac{3}{4}$	$\frac{9}{16}$	14.2	

SPECIAL Z-BARS

Section Index	Size, Inches			Thickness of Web Inches	Weight per Foot Pounds	Page No. of Section
	Flange	Web	Flange			
Z 13	3	6	3	$\frac{3}{8}$	14.5	12
Z 500	$2\frac{3}{8}$	$2\frac{1}{4}$	$2\frac{3}{8}$	$\frac{5}{8}$	1.9	12
Z 510	$1\frac{1}{8}$	$1\frac{5}{8}$	$1\frac{1}{2}$	$\frac{3}{4}$	2.6	12
Z 520	$1\frac{5}{8}$	$1\frac{3}{4}$	2	$\frac{3}{8}$	4.6	12
Z 19	$1\frac{1}{4}$	$1\frac{3}{4}$	$2\frac{1}{8}$	$\frac{7}{8}$	3.5	12
Z 530	$1\frac{3}{8}$	$1\frac{5}{8}$	$1\frac{7}{8}$	$\frac{5}{8}$	1.9	12

ANGLES WITH EQUAL LEGS

Section Index	Size, Inches	Thickness, Inches	Weight per Foot Pounds	Page No. of Section
A 113	8 × 8	1 $\frac{1}{8}$	56.9	13
A 112	8 × 8	1 $\frac{1}{16}$	54.0	
A 111	8 × 8	1	51.0	
A 110	8 × 8	$\frac{15}{16}$	48.1	
A 109	8 × 8	$\frac{7}{8}$	45.0	
A 108	8 × 8	$\frac{13}{16}$	42.0	
A 107	8 × 8	$\frac{3}{4}$	38.9	
A 106	8 × 8	$\frac{11}{8}$	35.8	
A 105	8 × 8	$\frac{5}{8}$	32.7	
A 104	8 × 8	$\frac{9}{16}$	29.6	
A 103	8 × 8	$\frac{1}{2}$	26.4	
A 86	6 × 6	1	37.4	13
A 87	6 × 6	$\frac{15}{16}$	35.3	
A 1	6 × 6	$\frac{7}{8}$	33.1	
A 2	6 × 6	$\frac{13}{16}$	31.0	
A 3	6 × 6	$\frac{3}{4}$	28.7	
A 4	6 × 6	$\frac{11}{16}$	26.5	
A 5	6 × 6	$\frac{5}{8}$	24.2	
A 6	6 × 6	$\frac{9}{16}$	21.9	
A 7	6 × 6	$\frac{1}{2}$	19.6	
A 8	6 × 6	$\frac{7}{16}$	17.2	
A 88	6 × 6	$\frac{3}{8}$	14.9	
A 94	5 × 5	1	30.6	13
A 95	5 × 5	$\frac{15}{16}$	28.9	
A 9	5 × 5	$\frac{7}{8}$	27.2	
A 10	5 × 5	$\frac{13}{16}$	25.4	
A 11	5 × 5	$\frac{3}{4}$	23.6	
A 12	5 × 5	$\frac{11}{16}$	21.8	
A 13	5 × 5	$\frac{5}{8}$	20.0	
A 14	5 × 5	$\frac{9}{16}$	18.1	
A 15	5 × 5	$\frac{1}{2}$	16.2	
A 16	5 × 5	$\frac{7}{16}$	14.3	
A 17	5 × 5	$\frac{3}{8}$	12.3	

ANGLES WITH EQUAL LEGS—Continued

Section Index	Size, Inches	Thickness, Inches	Weight per Foot Pounds	Page No. of Section
A 18	4 × 4	$\frac{13}{16}$	19.9	13
A 19	4 × 4	$\frac{3}{4}$	18.5	
A 20	4 × 4	$\frac{11}{16}$	17.1	
A 21	4 × 4	$\frac{5}{8}$	15.7	
A 22	4 × 4	$\frac{9}{16}$	14.3	
A 23	4 × 4	$\frac{1}{2}$	12.8	
A 24	4 × 4	$\frac{7}{16}$	11.3	
A 25	4 × 4	$\frac{3}{8}$	9.8	
A 90	4 × 4	$\frac{5}{16}$	8.2	13
A 26	3½ × 3½	$\frac{13}{16}$	17.1	
A 27	3½ × 3½	$\frac{3}{4}$	16.0	
A 28	3½ × 3½	$\frac{11}{16}$	14.8	
A 29	3½ × 3½	$\frac{5}{8}$	13.6	
A 30	3½ × 3½	$\frac{9}{16}$	12.4	
A 31	3½ × 3½	$\frac{1}{2}$	11.1	
A 32	3½ × 3½	$\frac{7}{16}$	9.8	
A 33	3½ × 3½	$\frac{3}{8}$	8.5	13
A 99	3½ × 3½	$\frac{5}{16}$	7.2	
A 34	3 × 3	$\frac{5}{8}$	11.5	
A 35	3 × 3	$\frac{9}{16}$	10.4	
A 36	3 × 3	$\frac{1}{2}$	9.4	
A 37	3 × 3	$\frac{7}{16}$	8.3	
A 38	3 × 3	$\frac{3}{8}$	7.2	
A 39	3 × 3	$\frac{5}{16}$	6.1	
A 40	3 × 3	$\frac{1}{4}$	4.9	13
A 500	3 × 3	$\frac{3}{16}$	3.7	
A 501	3 × 3	$\frac{1}{8}$	2.5	
A 41	2¾ × 2¾	$\frac{1}{2}$	8.5	
A 42	2¾ × 2¾	$\frac{7}{16}$	7.6	
A 43	2¾ × 2¾	$\frac{3}{8}$	6.6	
A 44	2¾ × 2¾	$\frac{5}{16}$	5.6	
A 45	2¾ × 2¾	$\frac{1}{4}$	4.5	
A 502	2¾ × 2¾	$\frac{3}{16}$	3.4	13
A 503	2¾ × 2¾	$\frac{1}{8}$	2.3	

ANGLES WITH EQUAL LEGS—Continued

Section Index	Size, Inches	Thickness, Inches	Weight per Foot Pounds	Page No. of Section
A 46	2½ × 2½	½	7.7	13
A 47	2½ × 2½	$\frac{7}{16}$	6.8	
A 48	2½ × 2½	$\frac{3}{8}$	5.9	
A 49	2½ × 2½	$\frac{5}{16}$	5.0	
A 50	2½ × 2½	$\frac{1}{4}$	4.1	
A 100	2½ × 2½	$\frac{3}{16}$	3.1	
A 504	2½ × 2½	$\frac{1}{8}$	2.1	13
A 51	2¼ × 2¼	½	6.8	
A 52	2¼ × 2¼	$\frac{7}{16}$	6.1	
A 53	2¼ × 2¼	$\frac{3}{8}$	5.3	
A 54	2¼ × 2¼	$\frac{5}{16}$	4.5	
A 55	2¼ × 2¼	$\frac{1}{4}$	3.7	
A 101	2¼ × 2¼	$\frac{3}{16}$	2.8	
A 505	2¼ × 2¼	$\frac{1}{8}$	1.9	
A 56	2 × 2	$\frac{7}{16}$	5.3	13
A 57	2 × 2	$\frac{3}{8}$	4.7	
A 58	2 × 2	$\frac{5}{16}$	4.0	
A 59	2 × 2	$\frac{1}{4}$	3.2	
A 60	2 × 2	$\frac{3}{16}$	2.5	
A 506	2 × 2	$\frac{1}{8}$	1.7	
A 61	1¾ × 1¾	$\frac{7}{16}$	4.6	13
A 62	1¾ × 1¾	$\frac{3}{8}$	4.0	
A 63	1¾ × 1¾	$\frac{5}{16}$	3.4	
A 64	1¾ × 1¾	$\frac{1}{4}$	2.8	
A 65	1¾ × 1¾	$\frac{3}{16}$	2.2	
A 507	1¾ × 1¾	$\frac{1}{8}$	1.4	
A 66	1½ × 1½	$\frac{3}{8}$	3.4	14
A 67	1½ × 1½	$\frac{5}{16}$	2.9	
A 68	1½ × 1½	$\frac{1}{4}$	2.4	
A 69	1½ × 1½	$\frac{3}{16}$	1.8	
A 102	1½ × 1½	$\frac{1}{8}$	1.3	

ANGLES WITH EQUAL LEGS—Continued

Section Index	Size, Inches	Thickness, Inches	Weight per Foot Pounds	Page No. of Section
A 70	$1\frac{1}{4} \times 1\frac{1}{4}$	$\frac{5}{16}$	2.4	14
A 71	$1\frac{1}{4} \times 1\frac{1}{4}$	$\frac{1}{4}$	2.0	
A 72	$1\frac{1}{4} \times 1\frac{1}{4}$	$\frac{3}{16}$	1.5	
A 73	$1\frac{1}{4} \times 1\frac{1}{4}$	$\frac{1}{8}$	1.1	
A 508	$1\frac{1}{8} \times 1\frac{1}{8}$	$\frac{3}{16}$	1.3	14
A 509	$1\frac{1}{8} \times 1\frac{1}{8}$	$\frac{1}{8}$	0.9	
A 78	1×1	$\frac{1}{4}$	1.5	14
A 79	1×1	$\frac{3}{16}$	1.2	
A 80	1×1	$\frac{1}{8}$	0.8	
A 510	1×1	No. 13	0.6	
A 81	$\frac{7}{8} \times \frac{7}{8}$	$\frac{3}{16}$	1.0	14
A 82	$\frac{7}{8} \times \frac{7}{8}$	$\frac{1}{8}$	0.7	
A 511	$\frac{7}{8} \times \frac{7}{8}$	$\frac{3}{32}$	0.5	
A 83	$\frac{3}{4} \times \frac{3}{4}$	$\frac{3}{16}$	0.9	14
A 84	$\frac{3}{4} \times \frac{3}{4}$	$\frac{1}{8}$	0.6	
A 512	$\frac{3}{4} \times \frac{3}{4}$	$\frac{3}{32}$	0.5	
A 513	$\frac{5}{8} \times \frac{5}{8}$	$\frac{1}{8}$	0.5	14
A 514	$\frac{5}{8} \times \frac{5}{8}$	$\frac{3}{32}$	0.4	
A 515	$\frac{1}{2} \times \frac{1}{2}$	$\frac{1}{8}$	0.4	14
A 516	$\frac{1}{2} \times \frac{1}{2}$	$\frac{3}{32}$	0.3	

ANGLES WITH UNEQUAL LEGS

Section Index	Size, Inches	Thickness, Inches	Weight per Foot Pounds	Page No. of Section
A 140	8 × 3½	$\frac{11}{20}$	20.5	14
A 150	7 × 3½	1	32.3	14
A 151	7 × 3½	$\frac{15}{16}$	30.5	
A 152	7 × 3½	$\frac{7}{8}$	28.7	
A 153	7 × 3½	$\frac{13}{16}$	26.8	
A 154	7 × 3½	$\frac{3}{4}$	24.9	
A 155	7 × 3½	$\frac{11}{16}$	23.0	
A 156	7 × 3½	$\frac{5}{8}$	21.0	
A 157	7 × 3½	$\frac{9}{16}$	19.1	
A 158	7 × 3½	$\frac{1}{2}$	17.0	
A 159	7 × 3½	$\frac{7}{16}$	15.0	
A 89	6 × 4	1	30.6	14
A 91	6 × 4	$\frac{15}{16}$	28.9	
A 160	6 × 4	$\frac{7}{8}$	27.2	
A 161	6 × 4	$\frac{13}{16}$	25.4	
A 162	6 × 4	$\frac{3}{4}$	23.6	
A 163	6 × 4	$\frac{11}{16}$	21.8	
A 164	6 × 4	$\frac{5}{8}$	20.0	
A 165	6 × 4	$\frac{9}{16}$	18.1	
A 166	6 × 4	$\frac{1}{2}$	16.2	
A 167	6 × 4	$\frac{7}{16}$	14.3	
A 168	6 × 4	$\frac{3}{8}$	12.3	
A 92	6 × 3½	1	28.9	14
A 93	6 × 3½	$\frac{15}{16}$	27.3	
A 169	6 × 3½	$\frac{7}{8}$	25.7	
A 170	6 × 3½	$\frac{13}{16}$	24.0	
A 171	6 × 3½	$\frac{3}{4}$	22.4	
A 172	6 × 3½	$\frac{11}{16}$	20.6	
A 173	6 × 3½	$\frac{5}{8}$	18.9	
A 174	6 × 3½	$\frac{9}{16}$	17.1	
A 175	6 × 3½	$\frac{1}{2}$	15.3	
A 176	6 × 3½	$\frac{7}{16}$	13.5	
A 177	6 × 3½	$\frac{3}{8}$	11.7	

ANGLES WITH UNEQUAL LEGS—Continued

Section Index	Size, Inches	Thickness, Inches	Weight per Foot Pounds	Page No. of Section
A 178	5 × 4	$\frac{7}{8}$	24.2	14
A 179	5 × 4	$\frac{13}{16}$	22.7	
A 180	5 × 4	$\frac{3}{4}$	21.1	
A 181	5 × 4	$\frac{11}{16}$	19.5	
A 182	5 × 4	$\frac{5}{8}$	17.8	
A 183	5 × 4	$\frac{9}{16}$	16.2	
A 184	5 × 4	$\frac{1}{2}$	14.5	
A 185	5 × 4	$\frac{7}{8}$	12.8	
A 186	5 × 4	$\frac{3}{8}$	11.0	
A 187	5 × 3½	$\frac{7}{8}$	22.7	15
A 188	5 × 3½	$\frac{13}{16}$	21.3	
A 189	5 × 3½	$\frac{3}{4}$	19.8	
A 190	5 × 3½	$\frac{11}{16}$	18.3	
A 191	5 × 3½	$\frac{5}{8}$	16.8	
A 192	5 × 3½	$\frac{9}{16}$	15.2	
A 193	5 × 3½	$\frac{1}{2}$	13.6	
A 194	5 × 3½	$\frac{7}{8}$	12.0	
A 195	5 × 3½	$\frac{3}{8}$	10.4	
A 96	5 × 3½	$\frac{5}{16}$	8.7	
A 196	5 × 3	$\frac{13}{16}$	19.9	15
A 197	5 × 3	$\frac{3}{4}$	18.5	
A 198	5 × 3	$\frac{11}{16}$	17.1	
A 199	5 × 3	$\frac{5}{8}$	15.7	
A 200	5 × 3	$\frac{9}{16}$	14.3	
A 201	5 × 3	$\frac{1}{2}$	12.8	
A 202	5 × 3	$\frac{7}{8}$	11.3	
A 203	5 × 3	$\frac{3}{8}$	9.8	
A 280	5 × 3	$\frac{5}{16}$	8.2	
A 204	4½ × 3	$\frac{13}{16}$	18.5	15
A 205	4½ × 3	$\frac{3}{4}$	17.3	
A 206	4½ × 3	$\frac{11}{16}$	16.0	
A 207	4½ × 3	$\frac{5}{8}$	14.7	
A 208	4½ × 3	$\frac{9}{16}$	13.3	
A 209	4½ × 3	$\frac{1}{2}$	11.9	

ANGLES WITH UNEQUAL LEGS—Continued

Section Index	Size, Inches	Thickness, Inches	Weight per Foot Pounds	Page No. of Section
A 210	4½ × 3	$\frac{7}{16}$	10.6	15
A 211	4½ × 3	$\frac{3}{8}$	9.1	
A 97	4½ × 3	$\frac{5}{16}$	7.7	
A 212	4 × 3½	$\frac{13}{16}$	18.5	15
A 213	4 × 3½	$\frac{3}{4}$	17.3	
A 214	4 × 3½	$\frac{11}{16}$	16.0	
A 215	4 × 3½	$\frac{5}{8}$	14.7	
A 216	4 × 3½	$\frac{9}{16}$	13.3	
A 217	4 × 3½	$\frac{1}{2}$	11.9	
A 218	4 × 3½	$\frac{7}{16}$	10.6	
A 219	4 × 3½	$\frac{3}{8}$	9.1	
A 98	4 × 3½	$\frac{5}{16}$	7.7	
A 220	4 × 3	$\frac{13}{16}$	17.1	15
A 221	4 × 3	$\frac{3}{4}$	16.0	
A 222	4 × 3	$\frac{11}{16}$	14.8	
A 223	4 × 3	$\frac{5}{8}$	13.6	
A 224	4 × 3	$\frac{9}{16}$	12.4	
A 225	4 × 3	$\frac{1}{2}$	11.1	
A 226	4 × 3	$\frac{7}{16}$	9.8	
A 227	4 × 3	$\frac{3}{8}$	8.5	
A 228	4 × 3	$\frac{5}{16}$	7.2	
A 600	4 × 2	$\frac{3}{8}$	7.3	15
A 601	4 × 2	$\frac{5}{16}$	6.2	
A 229	3½ × 3	$\frac{13}{16}$	15.8	15
A 230	3½ × 3	$\frac{3}{4}$	14.7	
A 231	3½ × 3	$\frac{11}{16}$	13.6	
A 232	3½ × 3	$\frac{5}{8}$	12.5	
A 233	3½ × 3	$\frac{9}{16}$	11.4	
A 234	3½ × 3	$\frac{1}{2}$	10.2	
A 235	3½ × 3	$\frac{7}{16}$	9.1	
A 236	3½ × 3	$\frac{3}{8}$	7.9	
A 237	3½ × 3	$\frac{5}{16}$	6.6	

ANGLES WITH UNEQUAL LEGS—Continued

Section Index	Size, Inches	Thickness, Inches	Weight per Foot Pounds	Page No. of Section
A 238	$3\frac{1}{2} \times 2\frac{1}{2}$	$\frac{11}{16}$	12.5	15
A 239	$3\frac{1}{2} \times 2\frac{1}{2}$	$\frac{9}{8}$	11.5	
A 240	$3\frac{1}{2} \times 2\frac{1}{2}$	$\frac{9}{16}$	10.4	
A 241	$3\frac{1}{2} \times 2\frac{1}{2}$	$\frac{1}{2}$	9.4	
A 242	$3\frac{1}{2} \times 2\frac{1}{2}$	$\frac{7}{8}$	8.3	
A 243	$3\frac{1}{2} \times 2\frac{1}{2}$	$\frac{3}{8}$	7.2	
A 244	$3\frac{1}{2} \times 2\frac{1}{2}$	$\frac{5}{16}$	6.1	
A 245	$3\frac{1}{2} \times 2\frac{1}{2}$	$\frac{1}{4}$	4.9	
A 602	$3\frac{1}{2} \times 2$	$\frac{3}{8}$	6.6	15
A 603	$3\frac{1}{2} \times 2$	$\frac{5}{16}$	5.6	
A 246	$3\frac{1}{4} \times 2$	$\frac{9}{16}$	9.0	15
A 247	$3\frac{1}{4} \times 2$	$\frac{1}{2}$	8.1	
A 248	$3\frac{1}{4} \times 2$	$\frac{7}{8}$	7.2	
A 249	$3\frac{1}{4} \times 2$	$\frac{3}{8}$	6.3	
A 250	$3\frac{1}{4} \times 2$	$\frac{5}{16}$	5.3	
A 251	$3\frac{1}{4} \times 2$	$\frac{1}{4}$	4.3	
A 604	$3\frac{1}{4} \times 1\frac{5}{8}$	$\frac{3}{16}$	3.1	15
A 252	$3 \times 2\frac{1}{2}$	$\frac{9}{16}$	9.5	15
A 253	$3 \times 2\frac{1}{2}$	$\frac{1}{2}$	8.5	
A 254	$3 \times 2\frac{1}{2}$	$\frac{7}{8}$	7.6	
A 255	$3 \times 2\frac{1}{2}$	$\frac{3}{8}$	6.6	
A 256	$3 \times 2\frac{1}{2}$	$\frac{5}{16}$	5.6	
A 257	$3 \times 2\frac{1}{2}$	$\frac{1}{4}$	4.5	
A 605	$3 \times 2\frac{1}{2}$	$\frac{3}{16}$	3.4	
A 258	3×2	$\frac{1}{2}$	7.7	15
A 259	3×2	$\frac{7}{8}$	6.8	
A 260	3×2	$\frac{3}{8}$	5.9	
A 261	3×2	$\frac{5}{16}$	5.0	
A 262	3×2	$\frac{1}{4}$	4.1	
A 606	3×2	$\frac{3}{16}$	3.1	

ANGLES WITH UNEQUAL LEGS—Continued

Section Index	Size, Inches	Thickness, Inches	Weight per Foot Pounds	Page No. of Section
A 607	3 × $1\frac{3}{8}$	$\frac{1}{8}$	1.6	15
A 264	$2\frac{1}{2}$ × 2	$\frac{1}{2}$	6.8	16
A 265	$2\frac{1}{2}$ × 2	$\frac{7}{16}$	6.1	
A 266	$2\frac{1}{2}$ × 2	$\frac{3}{8}$	5.3	
A 267	$2\frac{1}{2}$ × 2	$\frac{5}{16}$	4.5	
A 268	$2\frac{1}{2}$ × 2	$\frac{1}{4}$	3.7	
A 269	$2\frac{1}{2}$ × 2	$\frac{3}{16}$	2.8	
A 608	$2\frac{1}{2}$ × $1\frac{3}{4}$	$\frac{1}{4}$	3.4	16
A 609	$2\frac{1}{2}$ × $1\frac{3}{4}$	$\frac{3}{16}$	2.6	
A 610	$2\frac{1}{2}$ × $1\frac{1}{2}$	$\frac{5}{16}$	3.9	16
A 611	$2\frac{1}{2}$ × $1\frac{1}{2}$	$\frac{1}{4}$	3.2	
A 612	$2\frac{1}{2}$ × $1\frac{1}{2}$	$\frac{3}{16}$	2.4	
A 613	$2\frac{1}{2}$ × $1\frac{1}{4}$	$\frac{5}{32}$	2.0	16
A 270	$2\frac{1}{4}$ × $1\frac{1}{2}$	$\frac{1}{2}$	5.6	16
A 271	$2\frac{1}{4}$ × $1\frac{1}{2}$	$\frac{7}{16}$	5.0	
A 272	$2\frac{1}{4}$ × $1\frac{1}{2}$	$\frac{3}{8}$	4.4	
A 273	$2\frac{1}{4}$ × $1\frac{1}{2}$	$\frac{5}{16}$	3.7	
A 274	$2\frac{1}{4}$ × $1\frac{1}{2}$	$\frac{1}{4}$	3.0	
A 275	$2\frac{1}{4}$ × $1\frac{1}{2}$	$\frac{3}{16}$	2.3	
A 614	2 × $1\frac{1}{2}$	$\frac{5}{16}$	3.4	16
A 615	2 × $1\frac{1}{2}$	$\frac{1}{4}$	2.8	
A 616	2 × $1\frac{1}{2}$	$\frac{3}{16}$	2.1	
A 276	2 × $1\frac{3}{8}$	$\frac{1}{4}$	2.7	16
A 277	2 × $1\frac{3}{8}$	$\frac{3}{16}$	2.1	
A 617	2 × 1	No. 14	0.8	16

ANGLES WITH UNEQUAL LEGS—Continued

Section Index	Size, Inches	Thickness, Inches	Weight per Foot Pounds	Page No. of Section
A 618	$1\frac{3}{4} \times 1\frac{1}{4}$	$\frac{1}{4}$	2.3	16
A 619	$1\frac{3}{4} \times 1\frac{1}{4}$	$\frac{3}{16}$	1.8	
A 620	$1\frac{3}{4} \times 1\frac{1}{4}$	$\frac{1}{8}$	1.2	
A 621	$1\frac{3}{4} \times 1\frac{1}{8}$	$\frac{1}{4}$	2.2	16
A 622	$1\frac{3}{4} \times 1\frac{1}{8}$	$\frac{3}{16}$	1.7	
A 623	$1\frac{1}{2} \times 1\frac{1}{4}$	$\frac{1}{4}$	2.1	16
A 624	$1\frac{1}{2} \times 1\frac{1}{4}$	$\frac{3}{16}$	1.6	
A 278	$1\frac{3}{8} \times 1$	$\frac{1}{4}$	1.9	16
A 279	$1\frac{3}{8} \times 1$	$\frac{1}{8}$	1.0	
A 625	$1\frac{3}{8} \times \frac{7}{8}$	$\frac{3}{16}$	1.3	16
A 626	$1\frac{3}{8} \times \frac{7}{8}$	$\frac{1}{8}$	0.9	
A 627	$1 \times \frac{3}{4}$	$\frac{3}{16}$	1.0	16
A 628	$1 \times \frac{3}{4}$	$\frac{1}{8}$	0.7	
A 629	$1 \times \frac{5}{8}$	$\frac{3}{16}$	0.9	16
A 630	$1 \times \frac{5}{8}$	$\frac{1}{8}$	0.6	

SPECIAL ANGLES

SQUARE ROOT

Section Index	Size, Inches		Thickness of Metal, Inches	Weight per Foot Pounds	Page No. of Section
A 350	4	× 4	$\frac{3}{4}$	18.5	17
A 351	4	× 4	$\frac{11}{16}$	17.1	
A 352	4	× 4	$\frac{5}{8}$	15.7	
A 353	4	× 4	$\frac{9}{16}$	14.3	
A 354	4	× 4	$\frac{1}{2}$	12.8	
A 355	4	× 4	$\frac{7}{16}$	11.3	
A 356	4	× 4	$\frac{3}{8}$	9.8	
A 357	$3\frac{1}{2}$	× $3\frac{1}{2}$	$\frac{3}{4}$	16.0	17
A 358	$3\frac{1}{2}$	× $3\frac{1}{2}$	$\frac{11}{16}$	14.8	
A 359	$3\frac{1}{2}$	× $3\frac{1}{2}$	$\frac{5}{8}$	13.6	
A 360	$3\frac{1}{2}$	× $3\frac{1}{2}$	$\frac{9}{16}$	12.4	
A 361	$3\frac{1}{2}$	× $3\frac{1}{2}$	$\frac{1}{2}$	11.1	
A 362	$3\frac{1}{2}$	× $3\frac{1}{2}$	$\frac{7}{16}$	9.8	
A 363	$3\frac{1}{2}$	× $3\frac{1}{2}$	$\frac{3}{8}$	8.5	
A 364	3	× 3	$\frac{5}{8}$	11.5	17
A 365	3	× 3	$\frac{9}{16}$	10.4	
A 366	3	× 3	$\frac{1}{2}$	9.4	
A 367	3	× 3	$\frac{7}{16}$	8.3	
A 368	3	× 3	$\frac{3}{8}$	7.2	
A 369	3	× 3	$\frac{5}{16}$	6.1	
A 370	3	× 3	$\frac{1}{4}$	4.9	
A 371	$2\frac{3}{4}$	× $2\frac{3}{4}$	$\frac{1}{2}$	8.5	17
A 372	$2\frac{3}{4}$	× $2\frac{3}{4}$	$\frac{7}{16}$	7.6	
A 373	$2\frac{3}{4}$	× $2\frac{3}{4}$	$\frac{3}{8}$	6.6	
A 374	$2\frac{3}{4}$	× $2\frac{3}{4}$	$\frac{5}{16}$	5.6	
A 375	$2\frac{1}{2}$	× $2\frac{1}{2}$	$\frac{1}{2}$	7.7	17
A 376	$2\frac{1}{2}$	× $2\frac{1}{2}$	$\frac{7}{16}$	6.8	
A 377	$2\frac{1}{2}$	× $2\frac{1}{2}$	$\frac{3}{8}$	5.9	
A 378	$2\frac{1}{2}$	× $2\frac{1}{2}$	$\frac{5}{16}$	5.0	
A 379	$2\frac{1}{2}$	× $2\frac{1}{2}$	$\frac{1}{4}$	4.1	
A 383	$2\frac{1}{4}$	× $2\frac{1}{4}$	$\frac{1}{2}$	6.8	17
A 384	$2\frac{1}{4}$	× $2\frac{1}{4}$	$\frac{7}{16}$	6.1	

SPECIAL ANGLES—Continued

SQUARE ROOT

Section Index	Size, Inches	Thickness of Metal, Inches	Weight per Foot Pounds	Page No. of Section
A 385	$2\frac{1}{4} \times 2\frac{1}{4}$	$\frac{3}{8}$	5.3	17
A 386	$2\frac{1}{4} \times 2\frac{1}{4}$	$\frac{5}{16}$	4.5	
A 387	$2\frac{1}{4} \times 2\frac{1}{4}$	$\frac{1}{4}$	3.7	
A 388	2 × 2	$\frac{7}{16}$	5.3	18
A 389	2 × 2	$\frac{3}{8}$	4.7	
A 390	2 × 2	$\frac{5}{16}$	4.0	
A 391	2 × 2	$\frac{1}{4}$	3.2	
A 392	$1\frac{3}{4} \times 1\frac{3}{4}$	$\frac{7}{16}$	4.6	18
A 393	$1\frac{3}{4} \times 1\frac{3}{4}$	$\frac{3}{8}$	4.0	
A 394	$1\frac{3}{4} \times 1\frac{3}{4}$	$\frac{5}{16}$	3.4	
A 395	$1\frac{3}{4} \times 1\frac{3}{4}$	$\frac{1}{4}$	2.8	
A 396	$1\frac{1}{2} \times 1\frac{1}{2}$	$\frac{3}{8}$	3.4	18
A 397	$1\frac{1}{2} \times 1\frac{1}{2}$	$\frac{5}{16}$	2.9	
A 398	$1\frac{1}{2} \times 1\frac{1}{2}$	$\frac{1}{4}$	2.4	
A 399	$1\frac{1}{2} \times 1\frac{1}{2}$	$\frac{3}{16}$	1.8	
A 400	$1\frac{1}{4} \times 1\frac{1}{4}$	$\frac{5}{16}$	2.4	18
A 401	$1\frac{1}{4} \times 1\frac{1}{4}$	$\frac{1}{4}$	2.0	
A 402	$1\frac{1}{4} \times 1\frac{1}{4}$	$\frac{3}{16}$	1.5	
A 403	$1\frac{1}{4} \times 1\frac{1}{4}$	$\frac{1}{8}$	1.1	
A 406	$1\frac{1}{8} \times 1\frac{1}{8}$	$\frac{1}{4}$	1.7	18
A 407	$1\frac{1}{8} \times 1\frac{1}{8}$	$\frac{3}{16}$	1.3	
A 408	$1\frac{1}{8} \times 1\frac{1}{8}$	$\frac{1}{8}$	0.9	
A 430	$1\frac{1}{16} \times 1\frac{1}{16}$	$\frac{3}{16}$	1.1	
A 409	1 × 1	$\frac{1}{4}$	1.5	18
A 410	1 × 1	$\frac{3}{16}$	1.2	
A 411	1 × 1	$\frac{1}{8}$	0.8	
A 412	$\frac{7}{8} \times \frac{7}{8}$	$\frac{3}{16}$	1.0	18
A 413	$\frac{7}{8} \times \frac{7}{8}$	$\frac{1}{8}$	0.7	
A 414	$\frac{3}{4} \times \frac{3}{4}$	$\frac{3}{16}$	0.9	18
A 415	$\frac{3}{4} \times \frac{3}{4}$	$\frac{1}{8}$	0.6	

ODD ANGLES, INCLUDING ROUND BACK, BEADED, 60° AND TAPER ANGLE

Section Index	Size, Inches	Thickness, Inches	Weight per Foot Pounds	Page No. of Section
A 700	$3\frac{1}{2} \times 3\frac{1}{2}$	$\frac{3}{8}$	7.8	19
A 710	$3\frac{1}{4} \times 3\frac{1}{4}$	$\frac{1}{4}$	4.9	19
A 711	$3\frac{1}{4} \times 3\frac{1}{4}$	$\frac{5}{16}$	6.1	19
A 720	$2\frac{1}{4} \times 2\frac{1}{4}$	$\frac{3}{16}$	2.8	19
A 721	$2\frac{1}{4} \times 2\frac{1}{4}$	$\frac{1}{4}$	3.7	19
A 730	2×2	$\frac{3}{16}$	2.5	19
A 740	$1\frac{3}{4} \times 1\frac{3}{4}$	$\frac{3}{16}$	2.1	19
A 750	$1\frac{5}{8} \times 1\frac{5}{8}$	$\frac{3}{16}$	2.0	19
A 760	$2\frac{1}{8} \times 2\frac{1}{8}$	$\frac{1}{8}$	1.8	19
A 761	$2\frac{3}{16} \times 2\frac{3}{16}$	$\frac{3}{16}$	2.7	19
A 762	$2\frac{1}{4} \times 2\frac{1}{4}$	$\frac{1}{4}$	3.6	19
A 770	$2\frac{3}{8} \times 1\frac{3}{8}$	$\frac{1}{8}$	1.5	19
A 780	$2 \times \frac{1}{2}$	$\frac{5}{32}$	1.2	19
A 790	$1\frac{7}{8} \times 1\frac{7}{8}$	$\frac{5}{32}$	2.0	19
A 800	$1\frac{13}{16} \times \frac{7}{16}$	..	0.9	19
A 900	$1\frac{1}{16} \times 1\frac{3}{16}$	$\frac{5}{32}$	0.9	31
A 910	$\frac{3}{4} \times \frac{3}{4}$	$\frac{7}{64}$	0.5	19

TEES WITH EQUAL LEGS

Section Index	Size, Inches		Thickness of Metal Inches		Weight per Foot Pounds	Page No. of Section
	Flange	Stem	Flange	Stem		
T 1	4	4	$\frac{1}{2}$ to $\frac{9}{16}$	$\frac{1}{2}$ to $\frac{9}{16}$	13.9	20
T 2	4	4	$\frac{3}{8}$ to $\frac{7}{8}$	$\frac{3}{8}$ to $\frac{7}{8}$	10.9	
T 3	$3\frac{1}{2}$	$3\frac{1}{2}$	$\frac{1}{2}$ to $\frac{9}{16}$	$\frac{1}{2}$ to $\frac{9}{16}$	11.9	
T 4	$3\frac{1}{2}$	$3\frac{1}{2}$	$\frac{3}{8}$ to $\frac{7}{8}$	$\frac{3}{8}$ to $\frac{7}{8}$	9.3	
T 6	3	3	$\frac{1}{2}$ to $\frac{9}{16}$	$\frac{1}{2}$ to $\frac{9}{16}$	10.1	20
T 7	3	3	$\frac{7}{16}$ to $\frac{1}{2}$	$\frac{7}{16}$ to $\frac{1}{2}$	9.0	
T 8	3	3	$\frac{3}{8}$ to $\frac{7}{8}$	$\frac{3}{8}$ to $\frac{7}{8}$	7.9	
T 9	3	3	$\frac{5}{16}$ to $\frac{3}{8}$	$\frac{5}{16}$ to $\frac{3}{8}$	6.8	
T 10	$2\frac{1}{2}$	$2\frac{1}{2}$	$\frac{3}{8}$ to $\frac{7}{8}$	$\frac{3}{8}$ to $\frac{7}{8}$	6.5	20
T 11	$2\frac{1}{2}$	$2\frac{1}{2}$	$\frac{5}{16}$ to $\frac{3}{8}$	$\frac{5}{16}$ to $\frac{3}{8}$	5.6	
T 12	$2\frac{1}{4}$	$2\frac{1}{4}$	$\frac{5}{16}$ to $\frac{3}{8}$	$\frac{5}{16}$ to $\frac{3}{8}$	5.0	
T 13	$2\frac{1}{4}$	$2\frac{1}{4}$	$\frac{1}{4}$ to $\frac{5}{16}$	$\frac{1}{4}$ to $\frac{5}{16}$	4.2	
T 14	2	2	$\frac{5}{16}$ to $\frac{3}{8}$	$\frac{5}{16}$ to $\frac{3}{8}$	4.4	20
T 15	2	2	$\frac{1}{4}$ to $\frac{5}{16}$	$\frac{1}{4}$ to $\frac{5}{16}$	3.7	21
T 16	$1\frac{3}{4}$	$1\frac{3}{4}$	$\frac{1}{4}$ to $\frac{5}{16}$	$\frac{1}{4}$ to $\frac{5}{16}$	3.2	
T 500	$1\frac{3}{4}$	$1\frac{3}{4}$	$\frac{3}{16}$	$\frac{3}{16}$	2.1	21
T 17	$1\frac{1}{2}$	$1\frac{1}{2}$	$\frac{1}{4}$ to $\frac{9}{32}$	$\frac{1}{4}$ to $\frac{9}{32}$	2.6	
T 18	$1\frac{1}{2}$	$1\frac{1}{2}$	$\frac{3}{16}$ to $\frac{7}{32}$	$\frac{3}{16}$ to $\frac{7}{32}$	2.0	
T 19	$1\frac{1}{4}$	$1\frac{1}{4}$	$\frac{1}{4}$ to $\frac{9}{32}$	$\frac{1}{4}$ to $\frac{9}{32}$	2.1	
T 20	$1\frac{1}{4}$	$1\frac{1}{4}$	$\frac{3}{16}$ to $\frac{7}{32}$	$\frac{3}{16}$ to $\frac{7}{32}$	1.7	
T 501	$1\frac{1}{4}$	$1\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{8}$	1.0	
T 502	$1\frac{1}{8}$	$1\frac{1}{8}$	$\frac{3}{16}$	$\frac{3}{16}$	1.3	21
T 503	$1\frac{1}{8}$	$1\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	1.0	
T 504	1	1	$\frac{1}{4}$	$\frac{1}{4}$	1.5	
T 21	1	1	$\frac{3}{16}$ to $\frac{7}{32}$	$\frac{3}{16}$ to $\frac{7}{32}$	1.3	
T 22	1	1	$\frac{1}{8}$ to $\frac{5}{32}$	$\frac{1}{8}$ to $\frac{5}{32}$	1.0	21
T 505	$\frac{7}{8}$	$\frac{7}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	0.7	
T 506	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{1}{8}$	$\frac{1}{8}$	0.6	
T 507	$\frac{5}{8}$	$\frac{5}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	0.5	

TEES WITH UNEQUAL LEGS

Section Index	Size, Inches		Thickness of Metal Inches		Weight per Foot Pounds	Page No. of Section
	Flange	Stem	Flange	Stem		
T 50	5	3	$\frac{1}{2}$ to $\frac{9}{16}$	$\frac{13}{32}$ to $\frac{5}{8}$	13.6	22
T 51	5	$2\frac{1}{2}$	$\frac{3}{8}$ to $\frac{7}{16}$	$\frac{7}{16}$ to $\frac{21}{32}$	11.0	
T 52	$4\frac{1}{2}$	$3\frac{1}{2}$	$\frac{7}{16}$ to $\frac{9}{16}$	$\frac{11}{16}$ to $\frac{7}{8}$	15.9	22
T 53	$4\frac{1}{2}$	3	$\frac{5}{16}$ to $\frac{3}{8}$	$\frac{5}{16}$ to $\frac{3}{8}$	8.6	
T 54	$4\frac{1}{2}$	3	$\frac{3}{8}$ to $\frac{7}{16}$	$\frac{3}{8}$ to $\frac{7}{16}$	10.0	
T 55	$4\frac{1}{2}$	$2\frac{1}{2}$	$\frac{5}{16}$ to $\frac{3}{8}$	$\frac{5}{16}$ to $\frac{3}{8}$	8.0	
T 56	$4\frac{1}{2}$	$2\frac{1}{2}$	$\frac{3}{8}$ to $\frac{7}{16}$	$\frac{3}{8}$ to $\frac{7}{16}$	9.3	22
T 57	4	5	$\frac{1}{2}$ to $\frac{9}{16}$	$\frac{1}{2}$ to $\frac{9}{16}$	15.7	
T 58	4	5	$\frac{3}{8}$ to $\frac{7}{16}$	$\frac{3}{8}$ to $\frac{7}{16}$	12.3	
T 59	4	$4\frac{1}{2}$	$\frac{1}{2}$ to $\frac{9}{16}$	$\frac{1}{2}$ to $\frac{9}{16}$	14.8	
T 60	4	$4\frac{1}{2}$	$\frac{3}{8}$ to $\frac{7}{16}$	$\frac{3}{8}$ to $\frac{7}{16}$	11.6	23
T 61	4	3	$\frac{3}{8}$ to $\frac{7}{16}$	$\frac{3}{8}$ to $\frac{7}{16}$	9.3	
T 62	4	$2\frac{1}{2}$	$\frac{3}{8}$ to $\frac{7}{16}$	$\frac{3}{8}$ to $\frac{7}{16}$	8.7	
T 63	4	$2\frac{1}{2}$	$\frac{5}{16}$ to $\frac{3}{8}$	$\frac{5}{16}$ to $\frac{3}{8}$	7.4	
T 64	4	2	$\frac{3}{8}$ to $\frac{7}{16}$	$\frac{3}{8}$ to $\frac{7}{16}$	7.9	24
T 65	4	2	$\frac{5}{16}$ to $\frac{3}{8}$	$\frac{5}{16}$ to $\frac{3}{8}$	6.7	
T 66	$3\frac{1}{2}$	4	$\frac{1}{2}$ to $\frac{9}{16}$	$\frac{1}{2}$ to $\frac{9}{16}$	12.8	
T 67	$3\frac{1}{2}$	4	$\frac{3}{8}$ to $\frac{7}{16}$	$\frac{3}{8}$ to $\frac{7}{16}$	10.0	
T 69	$3\frac{1}{2}$	3	$\frac{1}{2}$ to $\frac{9}{16}$	$\frac{1}{2}$ to $\frac{9}{16}$	11.0	24
T 70	$3\frac{1}{2}$	3	$\frac{3}{8}$ to $\frac{7}{16}$	$\frac{3}{8}$ to $\frac{7}{16}$	8.7	
T 71	$3\frac{1}{2}$	3	$\frac{5}{16}$ to $\frac{3}{8}$	$\frac{3}{8}$	7.7	
T 72	3	4	$\frac{1}{2}$ to $\frac{9}{16}$	$\frac{1}{2}$ to $\frac{9}{16}$	11.9	
T 73	3	4	$\frac{7}{16}$ to $\frac{1}{2}$	$\frac{7}{16}$ to $\frac{1}{2}$	10.6	24
T 74	3	4	$\frac{3}{8}$ to $\frac{7}{16}$	$\frac{3}{8}$ to $\frac{7}{16}$	9.3	
T 75	3	$3\frac{1}{2}$	$\frac{1}{2}$ to $\frac{9}{16}$	$\frac{1}{2}$ to $\frac{9}{16}$	11.0	
T 76	3	$3\frac{1}{2}$	$\frac{7}{16}$ to $\frac{1}{2}$	$\frac{7}{16}$ to $\frac{1}{2}$	9.8	
T 77	3	$3\frac{1}{2}$	$\frac{3}{8}$ to $\frac{7}{16}$	$\frac{3}{8}$ to $\frac{7}{16}$	8.6	25
T 78	3	$2\frac{1}{2}$	$\frac{3}{8}$ to $\frac{7}{16}$	$\frac{3}{8}$ to $\frac{7}{16}$	7.2	
T 79	3	$2\frac{1}{2}$	$\frac{5}{16}$ to $\frac{3}{8}$	$\frac{5}{16}$ to $\frac{3}{8}$	6.2	
T 80	$2\frac{3}{4}$	2	$\frac{5}{16}$ to $\frac{11}{32}$	$\frac{3}{4}$	7.4	
T 82	$2\frac{1}{2}$	3	$\frac{3}{8}$ to $\frac{7}{16}$	$\frac{3}{8}$ to $\frac{7}{16}$	7.2	25
T 83	$2\frac{1}{2}$	3	$\frac{5}{16}$ to $\frac{3}{8}$	$\frac{5}{16}$ to $\frac{3}{8}$	6.2	

TEES WITH UNEQUAL LEGS—Continued

Section Index	Size, Inches		Thickness of Metal Inches		Weight per Foot Pounds	Page No. of Section
	Flange	Stem	Flange	Stem		
T 84	2½	2¾	⅜ to ⅞	⅜ to ⅞	6.8	25
T 85	2½	2¾	⅝ to ⅜	⅝ to ⅜	5.9	
T 600	2½	1 ²³ / ₃₂	¼ to 17/64	¼ to 17/64	3.6	25
T 601	2½	1 ²³ / ₃₂	8/16 to 7/8	8/16 to 13/64	2.9	
T 86	2½	1¼	8/16 to 9/8	3/8 to 5/8	3.0	
T 87	2	1½	¼ to 5/8	¼ to 5/8	3.2	25
T 602	1½	7/8	3/8 to 7/8	3/8 to 1/8	0.9	
T 603	1¼	5/8	7/8 to 7/8	7/8 to 9/8	0.7	

HAND RAIL TEES

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
T 154	4½ × 2 ³ / ₁₆	7.0	21
T 156	4 × 3	11.3	

SPECIAL TEE

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
T 508	1 ¹ / ₈ × ¾	1.5	21

MISCELLANEOUS SHAPES

TROUGH PLATES

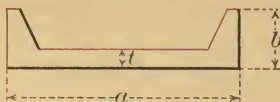
Section Index	Size Inches	Thickness of Metal Inches	Weight per Foot, Pounds	Page No. of Section
M 10	$9\frac{1}{2} \times 3\frac{3}{4}$	$\frac{1}{2}$	16.3	26
M 11	$9\frac{1}{2} \times 3\frac{3}{4}$	$\frac{9}{16}$	18.0	....
M 12	$9\frac{1}{2} \times 3\frac{3}{4}$	$\frac{5}{8}$	19.7	....
M 13	$9\frac{1}{2} \times 3\frac{3}{4}$	$\frac{11}{16}$	21.4	....
M 14	$9\frac{1}{2} \times 3\frac{3}{4}$	$\frac{3}{4}$	23.2	....

CORRUGATED PLATES

Section Index	Size Inches	Thickness of Metal Inches	Weight per Foot, Pounds	Page No. of Section
M 30	$8\frac{3}{4} \times 1\frac{1}{2}$	$\frac{1}{4}$	8.1	26
M 31	$8\frac{3}{4} \times 1\frac{9}{16}$	$\frac{5}{16}$	10.1	....
M 32	$8\frac{3}{4} \times 1\frac{5}{8}$	$\frac{3}{8}$	12.0	....
M 33	$12\frac{3}{16} \times 2\frac{3}{4}$	$\frac{3}{8}$	17.75	26
M 34	$12\frac{3}{16} \times 2\frac{1}{2}$	$\frac{7}{16}$	20.71	....
M 35	$12\frac{3}{16} \times 2\frac{7}{8}$	$\frac{1}{2}$	23.67	....

CHECKERED PLATES

Section Index	Width Inches	Thickness of Metal Inches	Weight per Sq. Foot, Pounds	Page No. of Section
M 51	34	$\frac{5}{16}$	13.8	26
M 52	34	$\frac{3}{8}$	16.3	....
M 53	34	$\frac{7}{16}$	18.9	....
M 54	34	$\frac{1}{2}$	21.4	....



SPECIAL CHANNELS

Section Index	a Inches	b Inches	t Inches or Gauges	Weight per Foot Pounds	Page No. of Section
C 500	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{8}$	0.28	27
C 501	$\frac{1}{2}$	$\frac{15}{64}$	No. 14	0.23	27
	$\frac{1}{2}$	Full	No. 13	0.25	
	$\frac{1}{2}$	$\frac{1}{4}$ Full	No. 12	0.27	
C 502	$\frac{5}{8}$	$\frac{19}{64}$ Full	No. 14	0.33	27
	$\frac{5}{8}$	$\frac{1}{8}$	No. 13	0.35	
C 503	$\frac{5}{8}$	$\frac{19}{64}$ Scant	No. 12	0.38	27
	$\frac{5}{8}$	$\frac{1}{8}$	No. 10	0.42	
C 504	$\frac{3}{4}$	$\frac{5}{16}$	$\frac{7}{64}$	0.47	27
C 505	$\frac{3}{4}$	$\frac{3}{8}$	$\frac{7}{64}$	0.53	27
C 506	$\frac{7}{8}$	$\frac{1}{4}$	$\frac{7}{64}$	0.47	27
C 507	$\frac{7}{8}$	$\frac{11}{32}$	$\frac{7}{64}$	0.59	27
C 508	$\frac{7}{8}$	$\frac{23}{64}$	$\frac{7}{64}$	0.60	27
	$\frac{7}{8}$	$\frac{3}{8}$	$\frac{1}{8}$	0.65	
	$\frac{7}{8}$	$\frac{1}{8}$	$\frac{3}{16}$	0.84	
C 509	$\frac{7}{8}$	$\frac{7}{16}$	$\frac{1}{8}$	0.70	27
C 510	$\frac{7}{8}$	$\frac{7}{16}$	$\frac{1}{8}$	0.72	27
	$\frac{7}{8}$	$\frac{1}{2}$	$\frac{3}{16}$	0.91	
C 511	$\frac{7}{8}$	$\frac{1}{2}$	$\frac{1}{8}$	0.80	27
C 512	$\frac{7}{8}$	$\frac{9}{16}$	$\frac{1}{4}$	1.08	27
C 513	1	$\frac{3}{8}$	$\frac{1}{8}$	0.68	27
	1	$\frac{7}{16}$	$\frac{3}{16}$	0.89	
	1	$\frac{1}{2}$	$\frac{1}{4}$	1.10	
C 514	1	$\frac{3}{8}$	$\frac{1}{8}$	0.69	27
	1	$\frac{7}{16}$	$\frac{3}{16}$	0.90	
C 515	1	$\frac{3}{8}$	$\frac{1}{8}$	0.76	27
C 516	1	$\frac{1}{2}$	$\frac{1}{8}$	0.82	27
	1	$\frac{9}{16}$	$\frac{3}{16}$	1.04	
C 517	1	$\frac{21}{64}$	No. 12	0.74	27
C 518	$1\frac{1}{8}$	$\frac{7}{16}$	$\frac{3}{16}$	1.05	27
C 519	$1\frac{1}{8}$	$\frac{1}{2}$	$\frac{1}{8}$	0.92	27
	$1\frac{1}{8}$	$\frac{9}{16}$	$\frac{3}{16}$	1.16	
C 520	$1\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{8}$	0.85	27
	$1\frac{1}{4}$	$\frac{7}{16}$	$\frac{3}{16}$	1.12	
	$1\frac{1}{4}$	$\frac{1}{2}$	$\frac{1}{4}$	1.38	

SPECIAL CHANNELS—Continued

Section Index	a Inches	b Inches	t Inches or Gauges	Weight per Foot Pounds	Page No. of Section
C 521	1 $\frac{1}{4}$	$\frac{7}{16}$	$\frac{3}{16}$	1.10	27
	1 $\frac{1}{4}$	$\frac{1}{2}$	$\frac{1}{4}$	1.37	
C 522	1 $\frac{1}{4}$	$\frac{1}{2}$	$\frac{1}{8}$	1.01	27
	1 $\frac{1}{4}$	$\frac{9}{16}$	$\frac{3}{16}$	1.28	
	1 $\frac{1}{4}$	$\frac{7}{8}$	$\frac{1}{4}$	1.54	
C 523	1 $\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{16}$	1.18	27
	1 $\frac{1}{4}$	$\frac{9}{16}$	$\frac{1}{4}$	1.44	
C 524	1 $\frac{3}{8}$	$\frac{23}{64}$	$\frac{1}{8}$	0.89	27
C 525	1 $\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{8}$	0.90	27
	1 $\frac{3}{8}$	$\frac{7}{8}$	$\frac{3}{16}$	1.20	
C 526	1 $\frac{3}{8}$	$\frac{7}{8}$	$\frac{3}{16}$	1.20	27
	1 $\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{4}$	1.49	
C 527	1 $\frac{1}{2}$	$\frac{7}{8}$	$\frac{3}{16}$	1.21	27
	1 $\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{4}$	1.53	
C 528	1 $\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{8}$	1.12	27
	1 $\frac{1}{2}$	$\frac{9}{16}$	$\frac{3}{16}$	1.43	
C 529	1 $\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{16}$	1.35	27
	1 $\frac{1}{2}$	$\frac{9}{16}$	$\frac{1}{4}$	1.67	
C 530	1 $\frac{3}{4}$	$\frac{7}{8}$	$\frac{3}{16}$	1.43	28
	1 $\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{4}$	1.81	
C 531	1 $\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{16}$	1.55	28
C 532	1 $\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{4}$	1.86	28
	1 $\frac{3}{4}$	$\frac{9}{16}$	$\frac{5}{16}$	2.23	
C 533	2	$\frac{1}{2}$	$\frac{1}{8}$	1.49	28
	2	$\frac{9}{16}$	$\frac{3}{16}$	1.91	
	2	$\frac{5}{8}$	$\frac{1}{4}$	2.34	
C 534	2	$\frac{9}{16}$	$\frac{3}{16}$	1.75	28
C 535	2	$\frac{5}{8}$	$\frac{1}{4}$	2.32	28
C 536	2	$\frac{1}{2}$	$\frac{1}{8}$	1.40	28
	2	$\frac{9}{16}$	$\frac{3}{16}$	1.83	
	2	$\frac{5}{8}$	$\frac{1}{4}$	2.25	
C 537	2 $\frac{1}{8}$	$\frac{7}{8}$	$\frac{5}{32}$	1.50	28
C 538	2 $\frac{1}{2}$	$\frac{15}{32}$	$\frac{1}{8}$	1.50	28
	2 $\frac{1}{2}$	$\frac{1}{2}$	$\frac{5}{32}$	1.77	
C 539	2 $\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{16}$	2.27	28
	2 $\frac{1}{2}$	$\frac{11}{16}$	$\frac{1}{4}$	2.80	
	2 $\frac{1}{2}$	$\frac{3}{4}$	$\frac{5}{16}$	3.33	
	2 $\frac{1}{2}$	$\frac{13}{16}$	$\frac{3}{8}$	3.86	

ROUND BACK CHANNELS

Section Index	Depth, Inches	Flange Width, Inches	Web Thickness Inches	Weight per Foot Pounds	Page No. of Section
C 540	1 $\frac{1}{8}$	$\frac{1}{2}$	$\frac{1}{4}$	1.10	28
C 541	1 $\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{16}$	1.33	28
C 111	1 $\frac{1}{2}$	$\frac{9}{16}$	$\frac{3}{16}$	1.30	28
C 542	2	$\frac{9}{16}$	$\frac{3}{16}$	1.67	28
C 543	2 $\frac{1}{2}$	$\frac{5}{8}$	$\frac{1}{4}$	2.40	28

FENDER CHANNELS

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
C 547	$\frac{61}{64} \times \frac{17}{64} \times \frac{3}{32}$	0.54	29
C 548	$1\frac{3}{8} \times \frac{3}{8} \times \frac{5}{32}$	1.10	29

DASH CHANNELS

Section Index	Size, Inches and Gauge	Weight per Foot Pounds	Page No. of Section
C 549	$1\frac{3}{16} \times \frac{9}{32} \times \frac{3}{32}$	0.78	29
C 550	$1\frac{1}{8} \times \frac{21}{64} \times \frac{5}{32}$	0.78	29
C 551	$1\frac{1}{8} \times \frac{5}{16} \times \text{No. 12}$	0.65	29

BICYCLE CHANNELS

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
C 552	$\frac{1}{2} \times \frac{9}{32} \times \frac{7}{64}$	0.20	29
C 553	$\frac{5}{8} \times \frac{19}{64} \times \frac{1}{2}$	0.28	29

STOVE LEG CHANNEL

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
C 554	$\frac{7}{8} \times \frac{3}{16} \times \frac{1}{8}$	0.45	29

WINGED CHANNEL

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
C 555	$\frac{7}{8} \times \frac{11}{32} \times \frac{1}{8}$	0.60	29

STANDARD RUBBER TIRE CHANNELS

Section Index	Base, Inches	Flange Width Inches	Web Thickness Inches	Weight per Foot, Pounds	Page No. of Section
C 600	$\frac{3}{4}$	$\frac{27}{64}$	$\frac{7}{64}$	0.60	30
C 601	$\frac{7}{8}$	$\frac{7}{16}$	$\frac{1}{8}$	0.75	30
C 602	1	$\frac{1}{2}$	$\frac{9}{64}$	0.85	30
C 603	$1\frac{1}{8}$	$\frac{17}{32}$	$\frac{5}{32}$	1.00	30
C 604	$1\frac{1}{4}$	$\frac{9}{16}$	$\frac{11}{64}$	1.20	30
C 605	$1\frac{3}{8}$	$\frac{39}{64}$	$\frac{3}{16}$	1.50	30
C 606	$1\frac{1}{2}$	$\frac{21}{32}$	$\frac{13}{64}$	1.80	30
C 607	$1\frac{5}{8}$	$\frac{45}{64}$	$\frac{7}{32}$	2.00	30
C 608	$1\frac{3}{4}$	$\frac{23}{32}$	$\frac{15}{64}$	2.20	30
C 609	2	$\frac{3}{4}$	$\frac{1}{4}$	2.70	30
C 610	$2\frac{1}{2}$	$\frac{53}{64}$	$\frac{9}{32}$	3.60	30
C 611	3	$\frac{57}{64}$	$\frac{19}{64}$	4.30	30
C 612	$3\frac{1}{2}$	$\frac{15}{8}$	$\frac{5}{16}$	5.40	30
C 613	4	1	$\frac{5}{16}$	6.70	30

SPECIAL CHANNEL

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
C 700	$4\frac{1}{4} \times 2\frac{1}{4} \times 1\frac{15}{16} \times \frac{3}{4}$	18.3	31

CARRIER TRACK

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
C 701	$1\frac{7}{8} \times \frac{1}{2} \times \frac{3}{8} \times \frac{1}{8}$	0.79	31

HAYCARRIER TRACK

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
A 900	$1\frac{1}{16} \times \frac{13}{16} \times \frac{5}{32}$	0.90	31

TROLLEY TRACK

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
C 702	$2\frac{1}{4} \times \frac{13}{16} \times \frac{1}{8}$	1.26	31

CUSHION TIRES

Section Index	Commercial Name	Weight per Foot Pounds	Page No. of Section
C 1125	$1\frac{1}{8}$	0.78	31
C 1250	$1\frac{1}{4}$	0.82	31
C 1500	$1\frac{1}{2}$	1.10	31

ODD CHANNELS

Section Index	Base, Inches	Flange Width Inches	Web Thickness Inches	Weight per Foot, Pounds	Page No. of Section
C 560	$1\frac{1}{4}$	$\frac{3}{4}$	$\frac{3}{16}$	1.56	32
C 561	$1\frac{1}{4}$	$\frac{11}{16}$	$\frac{3}{16}$	1.68	32
C 562	$1\frac{3}{16}$	$\frac{5}{8}$	$\frac{3}{16}$	1.46	32
C 563	$1\frac{1}{64}$	$\frac{5}{8}$	$\frac{3}{16}$	1.26	32
C 564	$1\frac{1}{64}$	$\frac{9}{16}$	$\frac{3}{16}$	1.05	32
C 565	1	$\frac{7}{16}$	$\frac{5}{32}$	0.82	32

U-BARS

Section Index	Base, Inches	Flange Width Inches	Web Thickness Inches	Weight per Foot, Pounds	Page No. of Section
U 570	$2\frac{1}{8}$	2	$\frac{5}{16}$	5.65	32
U 571	$1\frac{13}{16}$	1	$\frac{5}{16}$	3.23	32
U 572	$1\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{8}$	1.05	32
U 573	$1\frac{1}{4}$	$1\frac{1}{4}$	$\frac{3}{16}$	1.85	32
U 574	$1\frac{5}{16}$	$\frac{15}{16}$	$\frac{1}{4}$	2.15	32
U 575	$1\frac{5}{16}$	$\frac{7}{8}$	$\frac{1}{4}$	1.95	32
U 576	$1\frac{5}{16}$	$\frac{7}{8}$	$\frac{3}{16}$	1.78	32
U 577	$1\frac{5}{16}$	$\frac{7}{8}$	$\frac{3}{16}$	1.63	32
U 578	$1\frac{1}{8}$	$\frac{9}{16}$	$\frac{3}{16}$	1.10	32

CULTIVATOR BEAMS

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
B 500	$1\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	1.94	33
	$1\frac{1}{2} \times \frac{9}{16} \times \frac{5}{16}$	2.26	
B 501	$1\frac{1}{2} \times \frac{3}{8} \times \frac{1}{8}$	1.39	33
	$1\frac{1}{2} \times \frac{9}{16} \times \frac{5}{16}$	2.35	
B 502	$1\frac{1}{2} \times \frac{9}{16} \times \frac{1}{4}$	1.80	33
B 503	$1\frac{1}{2} \times \frac{5}{8} \times \frac{1}{8}$	1.26	33
B 504	$1\frac{1}{4} \times \frac{1}{2} \times \frac{9}{16}$	1.04	33

HARROW I-BEAMS

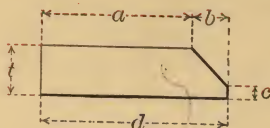
Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
B 505	$2\frac{7}{16} \times \frac{3}{4} \times \frac{1}{8}$	1.64	33
B 506	$2\frac{1}{8} \times \frac{5}{8} \times \frac{5}{32}$	1.63	33

SPECIAL I-BEAM

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
B 507	$1\frac{3}{8} \times 1\frac{1}{2} \times \frac{5}{32}$	2.5	33

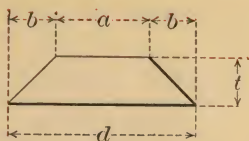
PLOW BEAMS

Section Index	Depth Inches	Width Inches	Thickness Inches	Weight per Foot, Pounds	Page No. of Section
P 500	2 $\frac{3}{8}$	1 $\frac{3}{16}$	$\frac{3}{8}$	5.20	34
P 11	2 $\frac{3}{8}$	1 $\frac{3}{8}$	$\frac{3}{8}$	7.25	34
P 501	2 $\frac{1}{2}$	1 $\frac{1}{8}$	$\frac{5}{8}$	7.15	34
P 502	2 $\frac{1}{2}$	1 $\frac{1}{8}$	$\frac{5}{16}$	5.45	34
P 503	2 $\frac{1}{2}$	1 $\frac{3}{16}$	$\frac{3}{8}$	5.95	34
P 8	2 $\frac{1}{2}$	1 $\frac{1}{4}$	$\frac{5}{16}$	7.30	34
	2 $\frac{1}{2}$	1 $\frac{7}{16}$	$\frac{1}{2}$	8.80	
P 3	2 $\frac{1}{2}$	1 $\frac{5}{16}$	$\frac{3}{8}$	9.00	34
	2 $\frac{1}{2}$	1 $\frac{11}{16}$	$\frac{3}{4}$	11.30	
P 504	2 $\frac{1}{2}$	1 $\frac{1}{2}$	$\frac{3}{8}$	6.80	34
P 505	2 $\frac{1}{2}$	1 $\frac{1}{2}$	$\frac{3}{4}$	9.00	34
P 10	2 $\frac{1}{2}$	1 $\frac{5}{8}$	$\frac{7}{16}$	8.00	34
P 506	2 $\frac{5}{8}$	1 $\frac{1}{4}$	$\frac{1}{4}$	6.85	34
	2 $\frac{5}{8}$	1 $\frac{3}{8}$	$\frac{3}{8}$	7.97	
	2 $\frac{5}{8}$	1 $\frac{1}{2}$	$\frac{1}{2}$	9.10	
P 7	2 $\frac{5}{8}$	1 $\frac{7}{16}$	$\frac{3}{8}$	9.50	34
	2 $\frac{5}{8}$	1 $\frac{11}{16}$	$\frac{5}{8}$	11.70	
P 507	2 $\frac{5}{8}$	1 $\frac{3}{4}$	$\frac{11}{16}$	11.60	34
P 508	2 $\frac{3}{4}$	1 $\frac{5}{8}$	$\frac{7}{8}$	10.70	34
P 13	2 $\frac{3}{4}$	1 $\frac{3}{4}$	$\frac{7}{16}$	9.90	34
P 2	2 $\frac{3}{4}$	2	$\frac{3}{4}$	12.80	34
P 9	2 $\frac{3}{4}$	2	$\frac{3}{4}$	12.00	34
P 12	2 $\frac{3}{4}$	2 $\frac{1}{8}$	1	13.80	34



BEVEL NOSE, INCLUDING CHAMFERED BAR AND SAND BAND

Section Index	d Inches	a Inches	b Inches	t Gauges or Inches	c Inches	Weight per Foot Pounds	Page No. of Section
M 500	$\frac{3}{4}$	$\frac{85}{128}$	$\frac{11}{128}$	$\frac{3}{16}$	$\frac{13}{128}$	0.47	35
M 501	1	$\frac{23}{32}$	$\frac{9}{32}$	No. 12	$\frac{1}{64}$	0.33	35
M 502	1	$\frac{3}{4}$	$\frac{1}{4}$	No. 12	$\frac{1}{64}$	0.33	35
M 503	$1\frac{1}{4}$	$\frac{27}{32}$	$\frac{13}{32}$	No. 13	$\frac{1}{64}$	0.35	35
M 504	$1\frac{1}{4}$	$\frac{7}{8}$	$\frac{3}{8}$	No. 13	$\frac{1}{64}$	0.35	35
M 505	$1\frac{1}{2}$	$1\frac{5}{32}$	$\frac{11}{32}$	$\frac{1}{8}$	$\frac{3}{64}$	0.59	35
M 506	2	$1\frac{5}{8}$	$\frac{3}{8}$	$\frac{7}{32}$	$\frac{3}{64}$	1.38	35
M 507	2	1	1	$\frac{1}{2}$	$\frac{1}{8}$	2.76	35
	2	1	1	$\frac{9}{16}$	$\frac{3}{16}$	3.19	
M 508	$2\frac{1}{4}$	$1\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{8}$	2.66	35
	$2\frac{1}{4}$	$1\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{4}$	3.61	
M 509	$2\frac{1}{4}$	$1\frac{3}{4}$	$\frac{1}{2}$	$\frac{7}{16}$	$\frac{1}{4}$	3.19	35
M 510	$2\frac{1}{2}$	$1\frac{3}{8}$	$1\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{16}$	1.77	35
	$2\frac{1}{2}$	$1\frac{3}{8}$	$1\frac{1}{8}$	$\frac{5}{16}$	$\frac{1}{8}$	2.30	
M 511	$2\frac{1}{2}$	$1\frac{1}{4}$	$1\frac{1}{4}$	$\frac{1}{2}$	$\frac{1}{8}$	3.45	35
M 512	$2\frac{1}{2}$	$1\frac{1}{2}$	1	$\frac{1}{2}$	$\frac{1}{8}$	3.61	35
	$2\frac{1}{2}$	$1\frac{1}{2}$	1	$\frac{9}{16}$	$\frac{3}{16}$	4.14	
M 513	3	$1\frac{3}{8}$	$1\frac{5}{8}$	$\frac{1}{4}$	$\frac{1}{16}$	2.03	35
M 514	3	2	1	$\frac{1}{2}$	$\frac{1}{8}$	4.46	35
	3	2	1	$\frac{9}{16}$	$\frac{3}{16}$	5.10	



BEVEL EDGE, INCLUDING BEVEL SHAFT, WAGON BOX AND TONGUE CAP

Section Index	d Inches	a Inches	b Inches	t Gauges or Inches	Weight per Foot Pounds	Page No. of Section
M 520	$\frac{5}{8}$	$\frac{1}{2}$	$\frac{1}{16}$	No. 16	0.12	35
M 521	$\frac{5}{8}$	$\frac{11}{32}$	$\frac{9}{64}$	$\frac{3}{16}$	0.31	
M 522	$\frac{5}{8}$	$\frac{1}{2}$	$\frac{1}{16}$	$\frac{3}{16}$	0.36	
M 523	$\frac{11}{16}$	$\frac{1}{2}$	$\frac{3}{32}$	No. 16	0.13	
M 524	$\frac{11}{16}$	$\frac{19}{32}$	$\frac{8}{64}$	No. 13	0.21	
M 525	$\frac{3}{4}$	$\frac{9}{16}$	$\frac{3}{32}$	No. 15	0.16	35
M 526	$\frac{3}{4}$	$\frac{19}{64}$	$\frac{29}{128}$	No. 14	0.15	
M 527	$\frac{3}{4}$	$\frac{9}{16}$	$\frac{3}{32}$	No. 13	0.21	
M 528	$\frac{3}{4}$	$\frac{19}{64}$	$\frac{29}{128}$	No. 12	0.19	
M 529	$\frac{3}{4}$	$\frac{17}{64}$	$\frac{31}{128}$	No. 10	0.22	
M 530	$\frac{3}{4}$	$\frac{15}{32}$	$\frac{9}{64}$	$\frac{5}{16}$	0.65	35
M 531	$\frac{25}{32}$	$\frac{11}{16}$	$\frac{3}{64}$	$\frac{1}{4}$	0.62	
M 532	$\frac{13}{16}$	$\frac{9}{16}$	$\frac{1}{8}$	No. 14	0.20	
M 533	$\frac{13}{16}$	$\frac{7}{16}$	$\frac{3}{16}$	No. 13	0.20	
M 534	$\frac{13}{16}$	$\frac{37}{64}$	$\frac{15}{128}$	No. 13	0.22	
M 535	$\frac{13}{16}$	$\frac{37}{64}$	$\frac{15}{128}$	No. 12	0.26	35
M 536	$\frac{7}{8}$	$\frac{9}{16}$	$\frac{5}{32}$	No. 14	0.20	
M 537	$\frac{7}{8}$	$\frac{9}{16}$	$\frac{5}{32}$	No. 13	0.23	
M 538	$\frac{7}{8}$	$\frac{21}{32}$	$\frac{7}{64}$	No. 14	0.22	
M 539	$\frac{7}{8}$	$\frac{21}{32}$	$\frac{7}{64}$	No. 13	0.25	
M 540	$\frac{7}{8}$	$\frac{41}{64}$	$\frac{15}{128}$	No. 12	0.28	35
M 541	$\frac{7}{8}$	$\frac{21}{32}$	$\frac{7}{64}$	No. 11	0.31	
M 542	$\frac{7}{8}$	$\frac{37}{64}$	$\frac{19}{128}$	No. 10	0.33	
M 543	$\frac{7}{8}$	$\frac{17}{32}$	$\frac{11}{64}$	$\frac{3}{16}$	0.45	
M 544	$\frac{7}{8}$	$\frac{5}{8}$	$\frac{1}{8}$	$\frac{3}{16}$	0.48	

BEVEL EDGE, INCLUDING BEVEL SHAFT, WAGON BOX AND TONGUE CAP—Continued

Section Index	d Inches	a Inches	b Inches	t Gauges or Inches	Weight per Foot Pounds	Page No of Section
M 544	$\frac{7}{8}$	$\frac{3}{4}$	$\frac{1}{16}$	$\frac{3}{16}$	0.52	35
M 545	$\frac{7}{8}$	$\frac{7}{16}$	$\frac{3}{32}$	$\frac{1}{4}$	0.52	
M 546	$\frac{7}{8}$	$\frac{17}{82}$	$\frac{11}{64}$	$\frac{1}{4}$	0.60	
M 547	$\frac{7}{8}$	$\frac{5}{8}$	$\frac{1}{8}$	$\frac{1}{4}$	0.64	
M 548	$\frac{7}{8}$	$\frac{21}{32}$	$\frac{7}{64}$	$\frac{1}{4}$	0.65	
M 549	$\frac{7}{8}$	$\frac{25}{32}$	$\frac{3}{64}$	$\frac{1}{4}$	0.70	35
M 550	$\frac{7}{8}$	$\frac{9}{16}$	$\frac{5}{32}$	$\frac{5}{16}$	0.76	
M 551	$\frac{15}{16}$	$\frac{9}{16}$	$\frac{3}{16}$	$\frac{3}{16}$	0.48	
M 552	1	$\frac{27}{32}$	$\frac{5}{64}$	No. 14	0.26	
M 553	1	$\frac{5}{8}$	$\frac{3}{16}$	No. 13	0.26	
M 554	1	$\frac{45}{64}$	$\frac{19}{128}$	No. 13	0.28	35
M 555	1	$\frac{23}{32}$	$\frac{9}{64}$	No. 12	0.32	
M 556	1	$\frac{23}{32}$	$\frac{9}{64}$	No. 11	0.35	
M 557	1	$\frac{11}{16}$	$\frac{5}{32}$	No. 11	0.34	
M 558	1	$\frac{23}{32}$	$\frac{9}{64}$	No. 10	0.39	
M 559	1	$\frac{3}{4}$	$\frac{1}{8}$	$\frac{3}{16}$	0.56	35
M 560	1	$\frac{9}{16}$	$\frac{7}{32}$	$\frac{1}{4}$	0.66	
M 561	1	$\frac{11}{16}$	$\frac{11}{64}$	$\frac{1}{4}$	0.70	
M 562	1	$\frac{3}{4}$	$\frac{1}{8}$	$\frac{1}{4}$	0.74	
M 563	1	$\frac{5}{8}$	$\frac{3}{16}$	$\frac{5}{16}$	0.86	
M 564	1	$\frac{21}{32}$	$\frac{11}{64}$	$\frac{5}{16}$	0.88	35
M 565	1	$\frac{13}{32}$	$\frac{64}{32}$	$\frac{3}{8}$	1.02	
M 566	$1\frac{1}{8}$	$\frac{13}{16}$	$\frac{5}{32}$	No. 13	0.34	
M 567	$1\frac{1}{8}$	1	$\frac{1}{16}$	No. 12	0.43	
M 568	$1\frac{1}{8}$	$\frac{5}{8}$	$\frac{1}{4}$	$\frac{1}{4}$	0.74	
M 569	$1\frac{1}{8}$	$\frac{11}{16}$	$\frac{7}{32}$	$\frac{1}{4}$	0.77	35
M 570	$1\frac{1}{8}$	$\frac{7}{8}$	$\frac{1}{8}$	$\frac{1}{4}$	0.85	
M 571	$1\frac{1}{8}$	$\frac{11}{16}$	$\frac{7}{32}$	$\frac{9}{32}$	0.87	
M 572	$1\frac{1}{8}$	$\frac{5}{8}$	$\frac{1}{4}$	$\frac{19}{64}$	0.89	
M 573	$1\frac{1}{8}$	$\frac{21}{32}$	$\frac{5}{64}$	$\frac{5}{16}$	0.95	

BEVEL EDGE, INCLUDING BEVEL SHAFT, WAGON BOX AND TONGUE CAP—Continued

Section Index	d Inches	a Inches	b Inches	t Gauges or Inches	Weight per Foot Pounds	Page No. of Section
M 574	1 $\frac{1}{8}$	$\frac{3}{4}$	$\frac{3}{16}$	$\frac{5}{16}$	1.00	35
M 575	1 $\frac{3}{16}$	$\frac{7}{8}$	$\frac{5}{32}$	$\frac{1}{4}$	0.88	
M 576	1 $\frac{1}{4}$	$\frac{6}{16}$ $\frac{7}{16}$ $\frac{4}{16}$ $\frac{3}{16}$	$\frac{2}{32}$ $\frac{3}{32}$ $\frac{1}{32}$ $\frac{2}{32}$	No. 13	0.33	
M 577	1 $\frac{1}{4}$	$\frac{2}{32}$ $\frac{3}{32}$	$\frac{1}{16}$ $\frac{7}{16}$ $\frac{4}{16}$ $\frac{3}{16}$	$\frac{1}{8}$	0.42	
M 578	1 $\frac{1}{4}$	1	$\frac{1}{8}$	$\frac{1}{8}$	0.48	
M 579	1 $\frac{1}{4}$	$\frac{7}{8}$	$\frac{3}{16}$	No. 10	0.48	35
M 580	1 $\frac{1}{4}$	$\frac{7}{8}$	$\frac{3}{16}$	$\frac{3}{16}$	0.68	
M 581	1 $\frac{1}{4}$	$\frac{2}{32}$ $\frac{7}{32}$ $\frac{3}{32}$	$\frac{1}{16}$ $\frac{1}{16}$ $\frac{1}{16}$ $\frac{3}{16}$	$\frac{1}{4}$	0.89	
M 582	1 $\frac{1}{4}$	1	$\frac{1}{8}$	$\frac{1}{4}$	0.96	
M 583	1 $\frac{1}{4}$	$\frac{2}{32}$ $\frac{5}{32}$	$\frac{1}{16}$ $\frac{5}{16}$ $\frac{4}{16}$	$\frac{5}{16}$	1.08	
M 584	1 $\frac{1}{4}$	$\frac{7}{8}$	$\frac{3}{16}$	$\frac{5}{16}$	1.13	35
M 585	1 $\frac{1}{4}$	$\frac{2}{32}$ $\frac{3}{32}$ $\frac{3}{32}$ $\frac{5}{32}$	$\frac{1}{16}$ $\frac{7}{16}$ $\frac{4}{16}$ $\frac{3}{16}$	$\frac{3}{8}$	1.25	
M 586	1 $\frac{3}{8}$	$\frac{2}{32}$ $\frac{3}{32}$ $\frac{5}{32}$	$\frac{1}{16}$ $\frac{9}{16}$ $\frac{4}{16}$	$\frac{5}{16}$	1.15	
M 587	1 $\frac{3}{8}$	1	$\frac{3}{16}$	$\frac{5}{16}$	1.26	
M 588	1 $\frac{3}{8}$	$\frac{7}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	1.43	
M 589	1 $\frac{1}{2}$	1 $\frac{1}{4}$	$\frac{1}{8}$	$\frac{3}{16}$	0.88	35
M 590	1 $\frac{1}{2}$	1	$\frac{1}{4}$	$\frac{5}{16}$	1.33	
M 591	1 $\frac{1}{2}$	1 $\frac{1}{8}$	$\frac{1}{16}$ $\frac{3}{16}$ $\frac{5}{16}$	$\frac{5}{16}$	1.39	
M 592	1 $\frac{1}{2}$	$\frac{2}{32}$ $\frac{3}{32}$ $\frac{3}{32}$	$\frac{1}{16}$ $\frac{5}{16}$ $\frac{4}{16}$ $\frac{1}{16}$	$\frac{1}{32}$	1.34	
M 593	1 $\frac{1}{2}$	1	$\frac{1}{4}$	$\frac{3}{8}$	1.59	
M 594	1 $\frac{1}{2}$	$\frac{7}{8}$	$\frac{5}{16}$	$\frac{7}{16}$	1.77	35
M 595	1 $\frac{3}{4}$	1 $\frac{1}{8}$	$\frac{5}{16}$	No. 11	0.65	
M 596	1 $\frac{3}{4}$	1 $\frac{3}{16}$ $\frac{5}{16}$ $\frac{9}{16}$	$\frac{3}{32}$ $\frac{5}{32}$ $\frac{1}{32}$ $\frac{1}{32}$	$\frac{7}{16}$	0.58	
M 597	1 $\frac{3}{4}$	1 $\frac{1}{16}$ $\frac{3}{16}$ $\frac{5}{16}$	$\frac{1}{16}$ $\frac{1}{16}$ $\frac{1}{16}$ $\frac{1}{16}$	$\frac{1}{4}$	1.34	
M 598	2	1 $\frac{5}{16}$	$\frac{1}{32}$ $\frac{1}{32}$	$\frac{5}{16}$	0.48	
M 599	2	1 $\frac{1}{8}$	$\frac{7}{16}$	No. 12	0.66	35
M 600	2	1 $\frac{1}{16}$ $\frac{3}{16}$ $\frac{5}{16}$	$\frac{2}{16}$ $\frac{1}{16}$ $\frac{4}{16}$	No. 10	0.76	
M 601	2	1 $\frac{3}{8}$	$\frac{3}{16}$	$\frac{3}{16}$	1.16	
M 602	2	1 $\frac{9}{16}$	$\frac{7}{16}$ $\frac{1}{16}$	$\frac{1}{4}$	1.51	
M 603	2 $\frac{1}{4}$	1 $\frac{3}{4}$	$\frac{1}{4}$	$\frac{5}{16}$	0.56	

BEVEL EDGE, INCLUDING BEVEL SHAFT, WAGON BOX AND TONGUE CAP—Continued

Section Index	d Inches	a Inches	b Inches	t Gauges Inches	Weight per Foot Pounds	Page No. of Section
M 604	2¼	1 $\frac{9}{16}$	1 $\frac{1}{8}$	No. 12	0.77	35
M 605	2¼	1 $\frac{25}{32}$	1 $\frac{5}{16}$	¼	1.71	35
M 606	2¼	1 $\frac{17}{32}$	2 $\frac{3}{64}$	⅜	2.41	35
M 607	2½	2	¼	No. 12	0.88	35
M 608	2½	1 $\frac{11}{16}$	1 $\frac{3}{8}$	No. 13	0.72	35
M 609	2½	1 $\frac{11}{16}$	1 $\frac{3}{8}$	No. 12	0.82	35
M 610	2½	1 $\frac{11}{16}$	1 $\frac{3}{8}$	No. 11	0.90	35
M 611	2½	1 $\frac{11}{16}$	1 $\frac{3}{8}$	No. 10	1.00	35
M 612	2½	1 $\frac{7}{8}$	4 $\frac{1}{64}$	7 $\frac{7}{32}$	1.45	35
M 613	2½	1 $\frac{11}{16}$	1 $\frac{3}{8}$	⅜	2.67	35
M 614	2⅝	1 $\frac{7}{8}$	⅜	No. 10	1.03	35
M 615	2⅝	2	1 $\frac{5}{16}$	No. 10	1.05	35
M 616	3	2 $\frac{3}{16}$	1 $\frac{3}{8}$	No. 14	0.73	35
M 617	3	2 $\frac{3}{16}$	1 $\frac{3}{8}$	No. 13	0.84	35

DOUBLE BEVEL

Section Index	Width, Inches	Bevel, Inches	Thickness Inches	Weight per Foot Pounds	Page No. of Section
M 670	1 $\frac{5}{8}$	2 $\frac{9}{128}$	1 $\frac{3}{16}$	0.60	36

ROUND BEVEL EDGE

Section Index	Width, Inches	Thickness Inches	Weight per Foot Pounds	Page No. of Section
M 630	$\frac{23}{32}$	$\frac{9}{64}$	0.32	35
M 631	$\frac{3}{4}$	$\frac{1}{8}$	0.30	35
M 632	$\frac{3}{4}$	$\frac{5}{32}$	0.35	35
M 633	$\frac{3}{4}$	$\frac{3}{16}$	0.43	35
M 634	$\frac{3}{4}$	$\frac{7}{32}$	0.51	35
M 635	$\frac{27}{32}$	$\frac{11}{64}$	0.46	35
M 636	$\frac{7}{8}$	$\frac{1}{8}$	0.34	35
M 637	$\frac{7}{8}$	$\frac{5}{32}$	0.41	35
M 638	$\frac{7}{8}$	$\frac{3}{16}$	0.51	35
M 639	$\frac{7}{8}$	$\frac{7}{32}$	0.60	35
M 640	$\frac{7}{8}$	$\frac{1}{4}$	0.69	35
M 641	1	$\frac{7}{64}$	0.35	35
M 642	1	$\frac{3}{16}$	0.59	35
M 643	1	$\frac{1}{4}$	0.80	35
M 644	$1\frac{1}{8}$	$\frac{1}{8}$	0.48	35
M 645	$1\frac{1}{8}$	$\frac{7}{32}$	0.70	35
M 646	$1\frac{1}{8}$	$\frac{9}{32}$	0.90	35
M 647	$1\frac{1}{8}$	$\frac{5}{16}$	1.05	35
M 648	$1\frac{1}{8}$	$\frac{5}{16}$	1.13	35
M 649	$1\frac{1}{4}$	$\frac{7}{64}$	0.42	35
M 650	$1\frac{1}{4}$	$\frac{1}{8}$	0.53	36
M 651	$1\frac{1}{4}$	$\frac{1}{4}$	0.97	36
M 652	$1\frac{1}{4}$	$\frac{5}{16}$	1.24	36
M 653	$1\frac{1}{4}$	$\frac{5}{16}$	1.19	36
M 654	$1\frac{1}{4}$	$\frac{3}{8}$	1.45	36
M 655	$1\frac{3}{8}$	$\frac{3}{8}$	1.53	36
M 656	$1\frac{1}{2}$	$\frac{9}{32}$	1.36	36
M 657	$1\frac{1}{2}$	$\frac{3}{8}$	1.71	36
M 658	$2\frac{1}{2}$	$\frac{1}{2}$	4.00	36
M 659	$\frac{7}{8}$	$\frac{5}{16}$	0.78	36
M 660	1	$\frac{5}{16}$	0.87	36
M 661	$1\frac{1}{4}$	$\frac{5}{16}$	1.08	36
M 662	2	$\frac{5}{16}$	1.72	36
M 663	2	$\frac{3}{8}$	2.11	36

CYLINDER LAG

Section Index	Width, Inches	Thickness Inches	Weight per Foot Pounds	Page No. of Section
M 680	1 $\frac{5}{8}$	$\frac{1}{8}$	3.07	37
M 681	1 $\frac{5}{8}$	$\frac{5}{8}$	3.25	37
M 682	1 $\frac{3}{4}$	$\frac{1}{2}$	2.61	37
M 683	1 $\frac{3}{4}$	$\frac{5}{8}$	3.41	37
M 684	1 $\frac{3}{4}$	$\frac{5}{8}$	3.44	37
M 685	1 $\frac{3}{4}$	$\frac{1}{2}$	2.92	37
	1 $\frac{3}{4}$	$\frac{5}{8}$	3.67	
	1 $\frac{3}{4}$	$\frac{1}{4}$	4.04	
M 686	1 $\frac{3}{4}$	$\frac{5}{8}$	3.54	37
M 687	1 $\frac{7}{8}$	$\frac{3}{4}$	4.71	37
M 688	1 $\frac{7}{8}$	$\frac{3}{4}$	4.61	37

SPECIAL ROUND EDGE FLATS

Section Index	Width, Inches	Thickness Inches	Weight per Foot Pounds	Page No. of Section
M 690	$\frac{4}{8}$	$\frac{1}{8}$	0.97	37
M 691	1	$\frac{7}{16}$	1.46	37
M 692	1 $\frac{1}{2}$	$\frac{7}{8}$	4.20	37
M 693	1 $\frac{3}{4}$	1	5.44	37

SPECIAL BEVELS INCLUDING DRILL POINT STEEL

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
M 700	$\frac{7}{8} \times \frac{2\frac{3}{4}}{3\frac{3}{4}} \times \frac{5}{16}$	0.91	38
M 701	$\frac{7}{8} \times \frac{3}{4} \times \frac{3}{4}$	2.07	38
M 702	$1 \times \frac{5}{8} \times \frac{7}{16}$	1.20	38
M 703	$1 \times \frac{2\frac{3}{4}}{3\frac{3}{4}} \times \frac{7}{16}$	1.28	38
M 704	$1 \times \frac{7}{8} \times \frac{7}{16}$	1.39	38
M 705	$1 \times \frac{9}{16} \times \frac{1}{2}$	1.33	38
M 706	$2\frac{1}{2} \times \frac{1}{4} \times \frac{1}{8}$	1.59	38
M 707	$2\frac{3}{4} \times \frac{3}{16} \times \frac{1}{16}$	1.17	38
M 708	$3 \times \frac{3}{16} \times \frac{1}{16}$	1.28	38
M 709	$3 \times \frac{3}{16} \times \frac{1}{8}$	1.59	38

BEADED STOVE LEGS INCLUDING STOVE LEG CHANNEL

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
M 710	$\frac{6\frac{1}{4}}{8\frac{1}{4}} \times \frac{5}{3\frac{3}{4}} \times \frac{1}{8}$	0.35	38
M 711	$\frac{3}{4} \times \frac{1}{8} \times \frac{3}{3\frac{3}{4}}$	0.21	38
M 712	$\frac{7}{8} \times \frac{3}{16} \times \frac{1}{8}$	0.39	38
M 713	$\frac{4\frac{9}{16}}{6\frac{1}{4}} \times \frac{1\frac{1}{2}}{3\frac{3}{4}} \times \frac{3}{16}$	0.44	38
M 714	$\frac{7}{8} \times \frac{3}{8} \times \frac{3}{16}$	0.50	38
C 554	$\frac{7}{8} \times \frac{3}{16} \times \frac{1}{8}$	0.45	29

ROUND EDGE GROOVED TIRE

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
M 715	$1\frac{1}{2} \times \frac{1}{2}$	2.60	38

SQUARE EDGE GROOVED TIRE

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
M 716	$1\frac{1}{2} \times \frac{1}{2}$	2.38	38
	$1\frac{1}{2} \times \frac{5}{8}$	3.02	
	$1\frac{1}{2} \times \frac{3}{4}$	3.66	

CRESCENT

Section Index	Commercial Name	Size, Inches or Gauges	Weight per Foot Pounds		Page No. of Section
			Min.	Max.	
M 720	$\frac{11}{32}$	$\frac{13}{32} \times \frac{17}{64} \times$ No. 10 to No. 13	0.15	0.21	39
M 721	$\frac{7}{32}$	$\frac{7}{16} \times \frac{9}{32} \times$ No. 10 to No. 13	0.16	0.22	39
M 722	$\frac{13}{32}$	$\frac{15}{32} \times \frac{19}{64} \times$ No. 9 to No. 13	0.19	0.27	39
M 727	$\frac{7}{16}$	$\frac{1}{2} \times \frac{5}{16} \times$ No. 11 to No. 13	0.19	0.22	39
M 723	$\frac{1}{2}$	$\frac{9}{16} \times \frac{11}{32} \times$ No. 10 to No. 12	0.23	0.27	39
M 724	$\frac{5}{8}$	$\frac{11}{16} \times \frac{23}{64} \times$ No. 8 to No. 13	0.21	0.37	39
M 725	$\frac{3}{4}$	$\frac{13}{16} \times \frac{25}{64} \times$ No. 9 to No. 12	0.23	0.39	39

SPECIAL CRESCENT

Section Index	Commercial Name	Size, Inches or Gauges	Weight per Foot Pounds	Page No. of Section
M 726	$\frac{3}{4}$	$\frac{35}{32} \times \frac{21}{64} \times$ No. 11	0.34	39
M 730	..	$\frac{11}{16} \times \frac{1}{8}$	0.30	39

CONCAVE CONVEX

Section Index	Commercial Name	Size, Inches or Gauges	Weight per Foot Pounds		Page No. of Section
			Min.	Max.	
M 740	$\frac{5}{8}$	$\frac{5}{8} \times$ No. 13 to No. 15	0.15	0.20	39
M 750	$\frac{3}{4}$	$\frac{3}{4} \times$ No. 13 to No. 17	0.15	0.24	39

CRESCENT HAME

Section Index	Commercial Name	Size, Inches or Gauges	Weight per Foot Pounds		Page No. of Section
			Min.	Max.	
M 760	$\frac{1}{16}$	$\frac{1}{16} \times$ No. 14 and No. 15	0.20	0.23	39
M 765	$\frac{1}{16}$	$\frac{1}{16} \times \frac{5}{16}$	0.23	....	39
M 770	$\frac{7}{8}$	$\frac{7}{8} \times$ No. 9 to No. 12	0.32	0.44	39
M 775	$\frac{7}{8}$	$\frac{7}{8} \times$ No. 9 to No. 12	0.35	0.49	39
M 780	$1\frac{3}{16}$	$1\frac{3}{16} \times \frac{1}{8}$	0.53	....	39

BEVELED HAME

Section Index	Commercial Name	Size, Inches or Gauges	Weight per Foot Pounds		Page No. of Section
			Min.	Max.	
M 790	$\frac{3}{4}$	$\frac{3}{4} \times$ No. 14 to No. 17	0.16	0.22	39
M 795	$\frac{3}{4}$	$\frac{3}{4} \times \frac{9}{16} \times \frac{3}{16}$	0.17	....	39
M 800	$\frac{7}{8}$	$\frac{7}{8} \times$ No. 14 to No. 17	0.20	0.27	39

POLE CAP OR NECK YOKE

Section Index	Size, Inches or Gauges	Weight per Foot Pounds		Page No. of Section
		Min.	Max.	
M 810	$1\frac{3}{4} \times$ No. 7 to No. 13	0.46	1.00	39
M 811	$1\frac{7}{8} \times$ No. 7 to No. 13	0.50	1.10	39
M 812	$1\frac{1}{2} \times$ No. 7 to No. 13	0.52	1.12	39
M 813	$2 \times$ No. 7 to No. 13	0.53	1.15	39

HOLLOW HALF ROUND

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
M 820	3 \times 1½ \times ½	6.68	40
M 821	2½ \times 1¼ \times ½	5.34	40
M 822	2 \times 1 \times ¾	3.25	40

GROOVED ROUND

Section Index	Diam. of Round Inches	Groove, Inches	Weight per Foot Pounds	Page No. of Section
M 830	1	$\frac{17}{64} \times \frac{1}{8}$	2.60	40
M 831	1	$\frac{85}{64} \times \frac{11}{64}$	2.45	40

SPECIAL HALF OVAL

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
M 840	2½ \times ½ \times ⅛	3.20	40

GROOVED HALF OVAL

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
M 850	1 $\frac{1}{16} \times \frac{13}{32} \times \frac{9}{32}$	1.0	40

BLUNT HALF OVAL

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
M 890	$1\frac{1}{8} \times \frac{5}{16}$	0.95	40

SWITCH FRICTION PLATE

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
M 900	$3\frac{1}{2} \times \frac{3}{4} \times \frac{1}{2}$	5.50	41
M 901	$5 \times \frac{3}{4} \times \frac{1}{2}$	7.84	41

DOUBLE ANGLE SECTION

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
M 902	$1\frac{1}{16} \times \frac{1}{2}$	0.76	41

STAR SECTION

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
M 903	$\frac{3}{4} \times \frac{3}{4}$	0.36	41

DIAMOND HARROW TOOTH

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
M 904	$\frac{13}{16} \times \frac{11}{16}$	0.95	41
M 905	$\frac{7}{8} \times \frac{5}{8}$	0.93	41

CAN RING

Section Index	Size, Inches, or Gauges	Weight per Foot Pounds	Page No. of Section
M 906	$1\frac{1}{2} \times \frac{13}{16} \times$ No. 10	0.80	41
M 907	$1\frac{3}{4} \times \frac{7}{32} \times \frac{1}{16}$	0.63	41
	$1\frac{3}{4} \times \frac{15}{64} \times \frac{5}{64}$	0.72	
	$1\frac{3}{4} \times \frac{1}{4} \times \frac{3}{32}$	0.81	
	$1\frac{3}{4} \times \frac{17}{64} \times \frac{7}{64}$	0.90	
	$1\frac{3}{4} \times \frac{9}{32} \times \frac{1}{8}$	1.00	
	$1\frac{3}{4} \times \frac{32}{64} \times \frac{9}{64}$	1.09	
	$1\frac{3}{4} \times \frac{5}{16} \times \frac{5}{32}$	1.18	
	$1\frac{3}{4} \times \frac{1}{8} \times \frac{11}{64}$	1.28	
	$1\frac{3}{4} \times \frac{3}{8} \times \frac{3}{16}$	1.37	
	$1\frac{3}{4} \times \frac{22}{64} \times \frac{13}{64}$	1.46	
	$1\frac{3}{4} \times \frac{7}{32} \times \frac{1}{16}$	0.63	
	$1\frac{3}{4} \times \frac{15}{64} \times \frac{5}{64}$	0.72	
M 908	$1\frac{3}{4} \times \frac{1}{4} \times \frac{3}{32}$	0.81	41
	$1\frac{3}{4} \times \frac{17}{64} \times \frac{7}{64}$	0.90	
	$1\frac{3}{4} \times \frac{9}{32} \times \frac{1}{8}$	1.00	
	$1\frac{3}{4} \times \frac{32}{64} \times \frac{9}{64}$	1.09	
	$1\frac{3}{4} \times \frac{5}{16} \times \frac{5}{32}$	1.18	
	$1\frac{3}{4} \times \frac{1}{8} \times \frac{11}{64}$	1.28	
	$1\frac{3}{4} \times \frac{3}{8} \times \frac{3}{16}$	1.37	
	$1\frac{3}{4} \times \frac{22}{64} \times \frac{13}{64}$	1.46	
M 909	$1\frac{3}{4} \times \frac{9}{32} \times$ No. 10	1.02	41
M 910	$1\frac{3}{4} \times \frac{1}{2} \times \frac{5}{32}$	1.19	41
M 911	$1\frac{3}{4} \times \frac{1}{4} \times \frac{1}{16}$	0.66	41
M 912	$2\frac{3}{4} \times \frac{1}{4} \times$ No. 14	1.24	41

BEADED HUB BAND

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
M 913	$1\frac{1}{2} \times \frac{7}{8} \times \frac{1}{8}$	0.73	41
	$1\frac{5}{8} \times \frac{7}{8} \times \frac{1}{8}$	0.78	
	$1\frac{11}{16} \times \frac{7}{8} \times \frac{1}{8}$	0.81	
	$1\frac{3}{4} \times \frac{7}{8} \times \frac{1}{8}$	0.83	
	$1\frac{13}{16} \times \frac{7}{8} \times \frac{1}{8}$	0.86	
	$1\frac{15}{16} \times \frac{7}{8} \times \frac{1}{8}$	0.91	
	$2 \times \frac{7}{8} \times \frac{1}{8}$	0.94	

J-BARS

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
M 915	$\frac{15}{16} \times \frac{7}{8} \times \frac{1}{2} \times \frac{5}{8}$	1.10	42
M 916	$1\frac{7}{8} \times \frac{7}{8} \times \frac{1}{2} \times \frac{5}{8}$	1.25	42

D OR LINK IRON

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
M 917	1×1	3.2	42
M 918	$1\frac{1}{4} \times 1\frac{1}{4}$	5.00	42
	$1\frac{1}{4} \times 1\frac{3}{8}$	5.50	
	$1\frac{1}{4} \times 1\frac{1}{2}$	6.00	

PIANO BARS

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
M 919	$\frac{5}{8} \times \frac{3}{8}$	0.63	42
M 920	$\frac{11}{16} \times \frac{3}{8}$	0.71	42

SICKLE BAR

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
M 921	$1\frac{11}{32} \times \frac{11}{32} \times \frac{3}{16}$	0.88	42

KEY STEEL

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
M 922	$\frac{23}{32} \times \frac{13}{32} \times \frac{7}{32}$	0.67	42
M 923	$\frac{23}{32} \times \frac{13}{32} \times \frac{7}{32}$	0.70	42
M 924	$1\frac{7}{32} \times \frac{9}{32} \times \frac{7}{32}$	0.92	42

WEDGE BAR

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
M 925	$1\frac{3}{16} \times \frac{5}{16}$	1.0	42

STEP BAR

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
M 926	$1\frac{3}{16} \times \frac{5}{8} \times \frac{5}{16}$	1.64	42

BICYCLE WRENCH

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
M 927	$\frac{3}{4} \times \frac{1}{4} \times \frac{3}{16}$	0.58	42

RETAINING RING

Section Index	Size, Inches, or Gauges	Weight per Foot Pounds	Page No. of Section
M 928	$1\frac{3}{16} \times \frac{1}{4} \times \text{No. 8}$	0.67	42

HANGER BARS

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
M 930	$6 \times \frac{1}{4} \times \frac{1}{8}$	3.30	43
	$6 \times \frac{5}{16} \times \frac{3}{16}$	4.57	
	$6 \times \frac{3}{8} \times \frac{1}{4}$	5.84	
M 931	$6 \times 1\frac{1}{4} \times \frac{1}{4}$	8.36	43
M 932	$5 \times 1\frac{1}{4} \times \frac{1}{4}$	7.91	43
M 933	$4\frac{1}{4} \times 1\frac{1}{4} \times \frac{1}{4}$	6.40	43
M 934	$4\frac{1}{4} \times 1\frac{1}{4} \times \frac{1}{4}$	6.40	43
M 935	$3\frac{1}{2} \times 1 \times \frac{1}{4}$	4.41	43

BEADED PLANTER TIRE

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
M 936	$8\frac{7}{8} \times \frac{7}{16} \times \frac{3}{16}$	6.52	44
M 937	$8\frac{7}{8} \times \frac{7}{16} \times \frac{3}{16}$	6.62	44

BEADED AND RIBBED PLANTER TIRE

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
M 938	$6 \times \frac{1}{4} \times \frac{1}{8}$	2.98	44

RIBBED TIRE

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
M 939	$1\frac{1}{2} \times \frac{11}{32} \times \frac{5}{32}$	1.26	44
M 940	$2\frac{1}{2} \times \frac{11}{16} \times \frac{7}{32}$	2.28	44

BEADED TIRE**FLAT BACK**

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
M 941	$2\frac{1}{2} \times \frac{5}{16} \times \frac{9}{64}$	1.73	44

CAR FOLLOWER

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
M 942	$6 \times 1\frac{1}{2}$	30.51	45

CRANE TRACK RAIL

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
M 943	5×3	49.50	45

STANWOOD FRONT AND BACK

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
M 944	$1\frac{1}{8} \times \frac{23}{32} \times \frac{9}{32}$	1.22	45
M 945	$1\frac{11}{32} \times \frac{1}{2} \times \frac{3}{16}$	1.05	45

FLANGED CONCAVE CONVEX

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
M 946	$1\frac{7}{16} \times \frac{23}{64} \times \frac{9}{64}$	0.86	45

GROOVE BARS

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
M 947	$\frac{7}{16} \times \frac{13}{32} \times \frac{9}{32}$	0.54	45
M 948	$\frac{3}{8} \times \frac{17}{32} \times \frac{3}{8}$	0.56	45

GIRDER RAIL

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
M 950	$2\frac{3}{8} \times 1\frac{3}{4} \times 2\frac{1}{16}$	6.70	46

HAY CARRIER TRACK

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
M 951	$1\frac{1}{4} \times 2\frac{1}{16} \times \frac{1}{2}$	1.89	46

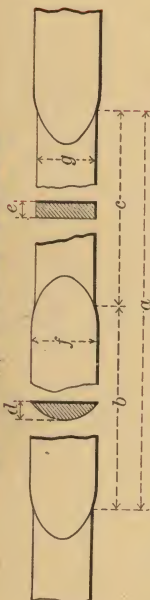
AXLE CLIP

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
M 952	$1\frac{3}{32} \times \frac{11}{32} \times \frac{7}{32} \times \frac{13}{64}$	1.55	46
M 953	$2\frac{3}{32} \times \frac{25}{64} \times \frac{1}{4} \times \frac{7}{32}$	1.86	46
M 954	$2\frac{7}{32} \times \frac{15}{32} \times \frac{9}{32} \times \frac{1}{4}$	2.27	46

SPECIAL NUT SECTION

Section Index	Size, Inches	Weight per Foot Pounds	Page No. of Section
M 960	$1\frac{3}{32} \times \frac{31}{32} \times \frac{5}{16} \times \frac{9}{32}$	1.96	46
M 961	$2\frac{3}{32} \times 1\frac{3}{32} \times \frac{5}{16} \times \frac{9}{32}$	2.10	46
M 962	$2\frac{7}{32} \times 1\frac{7}{32} \times \frac{5}{16} \times \frac{9}{32}$	2.23	46

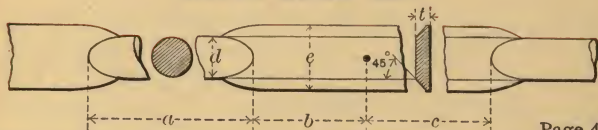
CONCORD HAME STRAPS



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Section Index	Flat		Half Oval		Lengths		
	g Width Inches	e Thickness Inches	f Width Inches	d Thickness Inches	c Flat Inches	b Half Oval Inches	a Total Inches
M 1020	$\frac{5}{8}$	$\frac{3}{8}$	$\frac{1}{8}$	$\frac{3}{16}$	$15\frac{1}{2}$	$12\frac{1}{2}$	28
M 1021	$\frac{3}{4}$	$\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{4}$	16	$12\frac{3}{4}$	$28\frac{3}{4}$
M 1022	$\frac{3}{4}$	$\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{4}$	$16\frac{3}{4}$	$13\frac{1}{8}$	$29\frac{7}{8}$
M 1023	$\frac{3}{4}$	$\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{4}$	$17\frac{5}{8}$	14	$31\frac{5}{8}$
M 1024	$\frac{3}{4}$	$\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{4}$	$17\frac{1}{2}$	14	$31\frac{1}{2}$
M 1025	$\frac{7}{8}$	$\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{4}$	$17\frac{3}{8}$	$14\frac{1}{2}$	$32\frac{1}{8}$
M 1026	1	$\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{4}$	19	15	34
M 1027	1	$\frac{5}{16}$	$\frac{1}{8}$	$\frac{5}{16}$	19	15	34
M 1028	$\frac{7}{8}$	$\frac{3}{8}$	$\frac{1}{8}$	$\frac{3}{8}$	$16\frac{1}{4}$	14	$30\frac{1}{4}$
M 1029	$\frac{3}{4}$	$\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{4}$	$15\frac{7}{8}$	$11\frac{7}{8}$	$27\frac{3}{4}$
M 1030	$\frac{3}{4}$	$\frac{3}{8}$	$\frac{1}{8}$	$\frac{3}{8}$	$15\frac{5}{8}$	$12\frac{3}{4}$	$28\frac{3}{8}$
M 1031	$\frac{3}{4}$	$\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{4}$	$15\frac{5}{8}$	$12\frac{3}{4}$	$28\frac{3}{8}$
M 1032	$\frac{3}{4}$	$\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{4}$	16	$13\frac{1}{2}$	$29\frac{1}{2}$

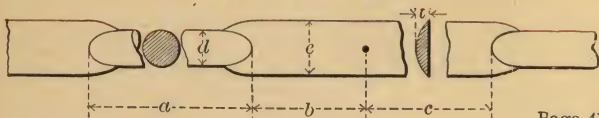
BEVEL EDGE CLIP



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Section Index	d Size Inches	Length		Bevel Edge	
		a Round Inches	b and c Bevel Edge Inches	e Width Inches	t Thickness Inches
M 1050	$\frac{7}{8}$	$3\frac{1}{2}$	$5\frac{7}{8} + 5\frac{7}{8}$	$1\frac{1}{8}$	$\frac{5}{32}$
M 1051	$\frac{7}{8}$	$3\frac{3}{4}$	$5\frac{1}{8} + 5\frac{1}{8}$	$1\frac{1}{8}$	$\frac{5}{32}$
M 1052	$\frac{7}{8}$	$3\frac{5}{8}$	$3\frac{1}{8} + 3\frac{1}{8}$	$1\frac{1}{8}$	$\frac{5}{32}$
M 1053	$\frac{7}{8}$	$2\frac{7}{8}$	$3\frac{7}{8} + 3\frac{7}{8}$	$1\frac{1}{8}$	$\frac{5}{32}$
M 1054	$\frac{7}{8}$	$3\frac{1}{4}$	$5\frac{1}{8} + 5\frac{1}{8}$	$1\frac{1}{8}$	$\frac{5}{32}$
M 1055	$\frac{7}{8}$	$3\frac{3}{8}$	$3\frac{5}{8} + 3\frac{5}{8}$	$1\frac{1}{8}$	$\frac{5}{32}$
M 1056	$\frac{7}{8}$	$3\frac{1}{8}$	$4\frac{1}{8} + 4\frac{1}{8}$	$1\frac{1}{8}$	$\frac{5}{32}$
M 1057	$\frac{7}{8}$	3	$5\frac{3}{8} + 5\frac{3}{8}$	$1\frac{1}{8}$	$\frac{5}{32}$
M 1058	$\frac{7}{8}$	3	$4\frac{3}{4} + 4\frac{3}{4}$	$1\frac{1}{8}$	$\frac{5}{32}$
M 1059	$\frac{7}{8}$	$2\frac{1}{8}$	$2\frac{1}{8} + 2\frac{1}{8}$	$1\frac{1}{8}$	$\frac{5}{32}$
M 1060	$\frac{3}{8}$	$2\frac{3}{4}$	$3\frac{3}{4} + 3\frac{3}{4}$	$1\frac{1}{8}$	$\frac{9}{64}$
M 1061	$\frac{3}{8}$	$3\frac{3}{8}$	$5\frac{1}{8} + 5\frac{1}{8}$	$1\frac{1}{8}$	$\frac{9}{64}$
M 1062	$\frac{3}{8}$	$2\frac{1}{8}$	$2\frac{1}{8} + 2\frac{1}{8}$	$1\frac{1}{8}$	$\frac{9}{64}$
M 1063	$\frac{3}{8}$	$3\frac{1}{8}$	$3\frac{5}{8} + 3\frac{5}{8}$	$1\frac{1}{8}$	$\frac{9}{64}$
M 1064	$\frac{3}{8}$	$3\frac{7}{8}$	$3\frac{1}{8} + 6\frac{1}{8}$	$1\frac{1}{8}$	$\frac{9}{64}$
M 1065	$\frac{3}{8}$	$2\frac{7}{8}$	$2\frac{9}{8} + 2\frac{9}{8}$	$1\frac{1}{8}$	$\frac{9}{64}$
M 1066	$\frac{3}{8}$	$2\frac{1}{8}$	$3\frac{3}{8} + 3\frac{3}{8}$	$1\frac{1}{8}$	$\frac{9}{64}$
M 1067	$\frac{3}{8}$	$2\frac{1}{8}$	3 + 3	$1\frac{1}{8}$	$\frac{9}{64}$
M 1068	$\frac{3}{8}$	$3\frac{1}{2}$	$3\frac{5}{8} + 7\frac{3}{8}$	$1\frac{1}{8}$	$\frac{9}{64}$
M 1069	$\frac{3}{8}$	$3\frac{3}{8}$	$3\frac{3}{8} + 7\frac{3}{8}$	$1\frac{1}{8}$	$\frac{9}{64}$
M 1070	$\frac{3}{8}$	$3\frac{1}{2}$	$5\frac{1}{8} + 8\frac{5}{8}$	$1\frac{1}{8}$	$\frac{9}{64}$
M 1071	$\frac{3}{8}$	3	$2\frac{1}{8} + 2\frac{1}{8}$	$1\frac{1}{8}$	$\frac{9}{64}$
M 1072	$\frac{3}{8}$	$2\frac{3}{4}$	$3\frac{1}{4} + 2\frac{3}{4}$	$1\frac{1}{8}$	$\frac{9}{64}$
M 1073	$\frac{3}{8}$	$2\frac{1}{8}$	$2\frac{5}{8} + 2\frac{5}{8}$	$1\frac{1}{8}$	$\frac{9}{64}$
M 1074	$\frac{3}{8}$	$2\frac{1}{4}$	$2\frac{5}{8} + 2\frac{5}{8}$	$1\frac{1}{8}$	$\frac{9}{64}$
M 1075	$\frac{3}{8}$	$2\frac{7}{8}$	3 + 3	$1\frac{1}{8}$	$\frac{9}{64}$
M 1076	$\frac{3}{8}$	$3\frac{1}{8}$	$7\frac{5}{8} + 3\frac{1}{8}$	$1\frac{1}{8}$	$\frac{9}{64}$
M 1077	$\frac{3}{8}$	$3\frac{1}{4}$	$7\frac{1}{8} + 3\frac{1}{8}$	$1\frac{1}{8}$	$\frac{9}{64}$
M 1078	$\frac{1}{8}$	$2\frac{7}{8}$	$2\frac{3}{4} + 2\frac{3}{4}$	$1\frac{1}{8}$	$\frac{9}{64}$
M 1079	$\frac{1}{8}$	$2\frac{1}{8}$	$6\frac{1}{2} + 3\frac{1}{8}$	$1\frac{1}{8}$	$\frac{9}{64}$
M 1080	$\frac{5}{16}$	$3\frac{1}{8}$	$3\frac{3}{8} + 3\frac{3}{8}$	$1\frac{1}{8}$	$\frac{9}{64}$
M 1081	$\frac{1}{8}$	3	$10\frac{5}{8} + 3\frac{1}{8}$	$1\frac{1}{8}$	$\frac{9}{64}$
M 1082	$\frac{5}{16}$	$3\frac{1}{4}$	$10\frac{1}{8} + 9$	$1\frac{1}{8}$	$\frac{9}{64}$

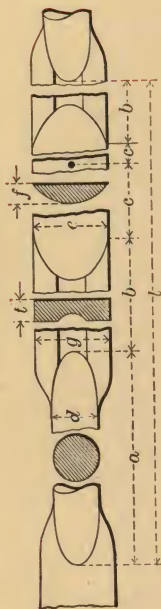
HALF OVAL CLIP



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Section Index	d Size Inches	Length		Half Oval	
		a Round Inches	b and c Half Oval Inches	e Width Inches	t Thickness Inches
M 1110	$\frac{3}{8}$	$3\frac{1}{8}$	$3\frac{5}{8} + 8\frac{1}{8}$	$\frac{9}{16}$	$\frac{5}{32}$
M 1111	$\frac{3}{8}$	3	10 $\frac{3}{16} + 8\frac{3}{16}$	$\frac{9}{16}$	$\frac{5}{32}$
M 1112	$\frac{3}{8}$	$3\frac{5}{8}$	$3\frac{3}{16} + 7\frac{1}{16}$	$\frac{9}{16}$	$\frac{5}{32}$
M 1113	$\frac{3}{8}$	$3\frac{5}{8}$	$3\frac{5}{16} + 7\frac{1}{16}$	$\frac{9}{16}$	$\frac{5}{32}$
M 1114	$\frac{3}{8}$	$3\frac{7}{8}$	7 + 7	$\frac{9}{16}$	$\frac{5}{32}$
M 1115	$\frac{3}{8}$	$2\frac{1}{8}$	$2\frac{1}{8} + 6\frac{3}{8}$	$\frac{9}{16}$	$\frac{5}{32}$
M 1116	$\frac{3}{8}$	$2\frac{3}{4}$	3 + 3	$\frac{9}{16}$	$\frac{5}{32}$
M 1117	$\frac{3}{8}$	$9\frac{1}{8}$	$15\frac{5}{16}$	$\frac{9}{16}$	$\frac{5}{32}$
M 1118	$\frac{3}{8}$	$2\frac{1}{8}$	$6\frac{1}{4} + 3$	$\frac{9}{16}$	$\frac{5}{32}$
M 1119	$\frac{3}{8}$	$3\frac{1}{2}$	$10\frac{1}{32} + 10\frac{1}{32}$	$\frac{9}{16}$	$\frac{5}{32}$
M 1120	$\frac{3}{8}$	$8\frac{1}{2}$	15	$\frac{9}{16}$	$\frac{5}{32}$
M 1121	$\frac{3}{8}$	$3\frac{1}{8}$	10 + 9	$\frac{9}{16}$	$\frac{5}{32}$
M 1122	$\frac{3}{8}$	$3\frac{7}{8}$	$3\frac{5}{8} + 7\frac{1}{8}$	$\frac{9}{16}$	$\frac{5}{32}$
M 1123	$\frac{3}{8}$	$3\frac{3}{8}$	$7\frac{3}{4} + 3\frac{3}{8}$	$\frac{9}{16}$	$\frac{5}{32}$
M 1124	$\frac{3}{8}$	$3\frac{9}{16}$	$3\frac{1}{8} + 10\frac{7}{8}$	$\frac{9}{16}$	$\frac{5}{32}$
M 1125	$\frac{11}{32}$	$3\frac{7}{16}$	$6\frac{1}{8} + 3\frac{1}{8}$	$\frac{9}{16}$	$\frac{9}{64}$
M 1126	$\frac{11}{32}$	$3\frac{7}{16}$	$6\frac{3}{8} + 3\frac{5}{8}$	$\frac{9}{16}$	$\frac{9}{64}$
M 1127	$\frac{11}{32}$	$3\frac{1}{16}$	6 + $2\frac{1}{16}$	$\frac{9}{16}$	$\frac{9}{64}$
M 1128	$\frac{11}{32}$	$3\frac{5}{8}$	$8\frac{1}{8} + 9\frac{1}{8}$	$\frac{9}{16}$	$\frac{9}{64}$
M 1129	$\frac{11}{32}$	3	$4\frac{1}{8} + 4\frac{1}{8}$	$\frac{9}{16}$	$\frac{5}{32}$
M 1130	$\frac{5}{16}$	$3\frac{1}{8}$	$8\frac{1}{8} + 3\frac{9}{8}$	$1\frac{7}{32}$	$\frac{9}{64}$
M 1131	$\frac{5}{16}$	$3\frac{1}{2}$	$3\frac{1}{8} + 6\frac{1}{8}$	$1\frac{7}{32}$	$\frac{9}{64}$
M 1132	$\frac{5}{16}$	$3\frac{3}{8}$	$3\frac{3}{4} + 6$	$1\frac{7}{32}$	$\frac{9}{64}$
M 1133	$\frac{5}{16}$	$3\frac{3}{8}$	3 + $6\frac{1}{4}$	$1\frac{7}{32}$	$\frac{9}{64}$
M 1134	$\frac{5}{16}$	$8\frac{9}{16}$	$9\frac{9}{32} + 9\frac{9}{32}$	$1\frac{7}{32}$	$\frac{9}{64}$
M 1135	$\frac{5}{16}$	$2\frac{3}{4}$	$3\frac{1}{8} + 8\frac{1}{2}$	$1\frac{7}{32}$	$\frac{9}{64}$
M 1136	$\frac{5}{16}$	$2\frac{11}{16}$	$3\frac{3}{8} + 6\frac{1}{2}$	$1\frac{7}{32}$	$\frac{9}{64}$
M 1137	$\frac{5}{16}$	$2\frac{13}{16}$	$3\frac{3}{8} + 6\frac{1}{4}$	$1\frac{7}{32}$	$\frac{9}{64}$
M 1138	$\frac{5}{16}$	$2\frac{5}{8}$	3 + $6\frac{5}{8}$	$1\frac{7}{32}$	$\frac{9}{64}$
M 1139	$\frac{5}{16}$	$2\frac{7}{8}$	$9\frac{5}{8} + 5\frac{3}{8}$	$1\frac{7}{32}$	$\frac{9}{64}$
M 1140	$\frac{5}{16}$	$3\frac{5}{8}$	$5\frac{1}{8} + 9\frac{7}{8}$	$1\frac{7}{32}$	$\frac{9}{64}$
M 1141	$\frac{5}{16}$	3	10 $\frac{1}{16} + 3\frac{1}{16}$	$1\frac{7}{32}$	$\frac{9}{64}$
M 1142	$\frac{5}{16}$	$3\frac{3}{16}$	$9\frac{1}{16} + 9\frac{1}{16}$	$1\frac{7}{32}$	$\frac{9}{64}$
M 1143	$\frac{5}{16}$	$4\frac{3}{8}$	$9\frac{1}{4}$	$1\frac{7}{32}$	$\frac{9}{64}$
M 1144	$\frac{5}{16}$	$7\frac{1}{4}$	$9\frac{5}{8} + 9\frac{5}{8}$	$1\frac{7}{32}$	$\frac{9}{64}$
M 1145	$\frac{5}{16}$	$7\frac{1}{4}$	$2\frac{1}{2} + 2\frac{1}{2}$	$1\frac{7}{32}$	$\frac{9}{64}$
M 1146	$\frac{5}{16}$	$3\frac{5}{8}$	$2\frac{1}{8} + 9\frac{1}{8}$	$1\frac{7}{32}$	$\frac{9}{64}$
M 1147	$\frac{5}{8}$	$8\frac{3}{8}$	$21\frac{9}{16}$	1	$\frac{7}{32}$

BOX STRAP



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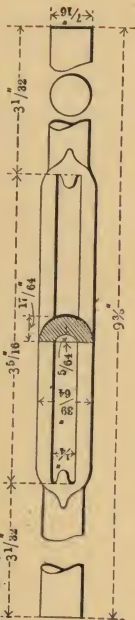
Section Index	d Size Inches	Width		Thickness		Length			
		c Half Oval Inches	g Grooved Flat Inches	f Half Oval Inches	e Grooved Flat Inches	d Round Inches	b Grooved Flat Inches	c Half Oval Inches	l Total
M 1200	$\frac{1}{2}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{7}{8}$	$\frac{3}{4}$	$8\frac{1}{4}$	$2\frac{3}{8}$	$7\frac{1}{2}$	28
M 1201	$\frac{9}{16}$	$\frac{1}{8}$	$\frac{7}{8}$	$\frac{1}{4}$	$\frac{1}{4}$	$8\frac{5}{16}$	$2\frac{5}{8}$	$7\frac{3}{8}$	29 $\frac{1}{2}$
M 1202	$\frac{1}{8}$	$\frac{7}{8}$	$\frac{7}{8}$	$\frac{1}{4}$	$\frac{1}{4}$	8	$2\frac{5}{8}$	$9\frac{5}{8}$	31 $\frac{3}{8}$
M 1203	$\frac{9}{16}$	$\frac{7}{8}$	$\frac{7}{8}$	$\frac{1}{4}$	$\frac{1}{4}$	7	$2\frac{5}{8}$	$8\frac{3}{8}$	28
M 1204	$\frac{5}{8}$	1	1	$\frac{1}{4}$	$\frac{1}{4}$	7	$2\frac{5}{8}$	$8\frac{3}{8}$	28
M 1205	$\frac{5}{8}$	1	1	$\frac{1}{4}$	$\frac{1}{4}$	8	$2\frac{5}{8}$	$9\frac{5}{8}$	31 $\frac{3}{8}$
M 1206	$\frac{5}{8}$	1	1	$\frac{1}{4}$	$\frac{1}{4}$	7	$2\frac{5}{8}$	$12\frac{1}{8}$	36

BIT MOUTH STEEL

M 1000.



M 1010.



Section Index	Diameter of Round Inches	Hollow Half Oval Inches		Length, Inches		Total Length Inches	Page No. of Section
		Width	Thickness	Round	Hollow Half Oval		
M 1000	$\frac{7}{16}$	$\frac{39}{64}$	$\frac{17}{64}$	$5\frac{3}{4}$	$1\frac{5}{8} \times 1\frac{5}{8}$	9	47
M 1010	$\frac{7}{16}$	$\frac{39}{64}$	$\frac{17}{64}$	$3\frac{1}{32} \times 3\frac{1}{32}$	$3\frac{5}{16}$	$9\frac{3}{8}$	47

ROUNDS

$\frac{13}{8}$ " to $1\frac{3}{4}$ " by $\frac{1}{8}$ " variations.

$1\frac{13}{16}$ " to $3\frac{1}{16}$ " by $\frac{1}{16}$ " variations.

$3\frac{1}{8}$ " to 4 " by $\frac{1}{8}$ " variations.

$4\frac{1}{4}$ " to $6\frac{3}{4}$ " by $\frac{1}{4}$ " variations.

SQUARES

$\frac{7}{8}$ " to 2 " by $\frac{1}{8}$ " variations.

$2\frac{1}{16}$ " to $3\frac{1}{8}$ " by $\frac{1}{16}$ " variations.

$3\frac{1}{4}$ " to 4 " by $\frac{1}{4}$ " variations.

$4\frac{1}{2}$ " to 5 "

HALF ROUNDS

$\frac{5}{16}$ " to 1" by $\frac{1}{16}$ " variations, $1\frac{1}{8}$ ", $1\frac{1}{4}$ ", $1\frac{3}{8}$ ", $1\frac{1}{2}$ ", $1\frac{3}{4}$ ", 2", $2\frac{1}{2}$ ", 3".

LIST OF OVALS

 $\frac{3}{8}" \times \text{No. 12, No. 11, } \frac{1}{8}", \frac{5}{32}", \frac{3}{16}", \frac{1}{4}"$
 $\frac{7}{16}" \times \text{No. 10, } \frac{5}{32}", \frac{7}{32}"$
 $\frac{15}{32}" \times \frac{3}{16}"$
 $\frac{1}{2}" \times \frac{1}{8}", \frac{3}{16}", \frac{7}{32}", \frac{1}{4}", \frac{5}{16}", \frac{3}{8}"$
 $\frac{17}{32}" \times \frac{9}{32}"$
 $\frac{9}{16}" \times \frac{3}{16}", \frac{7}{32}", \frac{1}{4}", \frac{5}{16}", \frac{3}{8}", \frac{7}{16}"$
 $\frac{19}{32}" \times \frac{9}{32}"$
 $\frac{5}{8}" \times \frac{1}{8}", \frac{3}{16}", \frac{1}{4}", \frac{5}{16}", \frac{3}{8}", \frac{7}{16}", \frac{9}{16}", \frac{1}{2}"$
 $\frac{11}{16}" \times \frac{11}{32}"$
 $\frac{3}{4}" \times \frac{5}{16}", \frac{3}{8}", \frac{7}{16}", \frac{1}{2}", \frac{9}{16}"$
 $\frac{13}{16}" \times \frac{13}{32}"$
 $\frac{7}{8}" \times \frac{5}{16}", \frac{3}{8}", \frac{7}{16}", \frac{1}{2}", \frac{9}{16}", \frac{5}{8}", \frac{3}{4}"$
 $\frac{15}{16}" \times \frac{15}{32}"$
 $1" \times \frac{3}{8}", \frac{7}{16}", \frac{1}{2}", \frac{5}{8}", \frac{3}{4}", \frac{7}{8}"$
 $1\frac{1}{8}" \times \frac{1}{2}", \frac{5}{8}", \frac{9}{16}", \frac{3}{4}", \frac{7}{8}"$
 $1\frac{1}{4}" \times \frac{5}{8}", \frac{3}{4}", \frac{7}{8}"$

BLUNT OVALS

 $\frac{3}{8}" \times \text{No. 12, } \frac{1}{8}"$
 $\frac{7}{16}" \times \text{No. 10, } \frac{3}{16}", \frac{7}{32}"$
 $\frac{1}{2}" \times \frac{1}{8}", \frac{3}{16}"$
 $\frac{9}{16}" \times \frac{3}{16}"$
 $\frac{5}{8}" \times \frac{3}{16}", \frac{13}{64}", \frac{1}{4}"$
 $\frac{11}{16}" \times \frac{7}{32}"$

HALF OVALS

$\frac{3}{8}$ "	×	No. 15 to $\frac{1}{8}$ " inc., advancing in thickness by 32ds.
$\frac{7}{16}$ "	×	No. 15 to $\frac{1}{8}$ " inc., advancing in thickness by 32ds.
$\frac{1}{2}$ "	×	No. 14 to $\frac{3}{16}$ " inc., advancing in thickness by 32ds.
$\frac{9}{16}$ "	×	No. 14 to $\frac{3}{16}$ " inc., advancing in thickness by 32ds.
$\frac{5}{8}$ "	×	No. 14 to $\frac{3}{16}$ " inc., advancing in thickness by 32ds.
$\frac{3}{4}$ "	×	No. 14 to $\frac{1}{4}$ " inc., advancing in thickness by 32ds.
$\frac{7}{8}$ "	×	No. 12 to $\frac{5}{16}$ " inc., advancing in thickness by 32ds.
1 "	×	No. 12 to $\frac{3}{8}$ " inc., advancing in thickness by 32ds.
$1\frac{1}{8}$ "	×	No. 12 to $\frac{5}{16}$ " inc., advancing in thickness by 32ds.
$1\frac{1}{4}$ "	×	No. 12 to $\frac{3}{8}$ " inc., advancing in thickness by 32ds.
$1\frac{3}{8}$ "	×	$\frac{1}{8}$ " to $\frac{1}{4}$ " inc., advancing in thickness by 32ds.
$1\frac{1}{2}$ "	×	$\frac{1}{8}$ " to $\frac{3}{8}$ " inc., advancing in thickness by 32ds.
$1\frac{5}{8}$ "	×	$\frac{1}{8}$ " to $\frac{1}{4}$ " inc., advancing in thickness by 32ds.
$1\frac{3}{4}$ "	×	$\frac{1}{8}$ " to $\frac{3}{8}$ " inc., advancing in thickness by 32ds.
$1\frac{7}{8}$ "	×	$\frac{3}{16}$ " to $\frac{3}{8}$ " inc., advancing in thickness by 16ths.
2 "	×	$\frac{3}{16}$ " to $\frac{1}{2}$ " inc., advancing in thickness by 16ths.
$2\frac{1}{8}$ "	×	$\frac{3}{16}$ " to $\frac{3}{8}$ " inc., advancing in thickness by 16ths.
$2\frac{1}{4}$ "	×	$\frac{3}{16}$ " to $\frac{3}{8}$ " inc., advancing in thickness by 16ths.
$2\frac{3}{8}$ "	×	$\frac{1}{4}$ " to $\frac{3}{8}$ " inc., advancing in thickness by 16ths.
$2\frac{1}{2}$ "	×	$\frac{1}{4}$ " to $\frac{5}{8}$ " inc., advancing in thickness by 16ths.
$2\frac{5}{8}$ "	×	$\frac{1}{4}$ " to $\frac{3}{8}$ " inc., advancing in thickness by 16ths.
$2\frac{3}{4}$ "	×	$\frac{1}{4}$ " to $\frac{3}{8}$ " inc., advancing in thickness by 16ths.
$2\frac{7}{8}$ "	×	$\frac{1}{4}$ " to $\frac{3}{8}$ " inc., advancing in thickness by 16ths.
3 "	×	$\frac{1}{4}$ " to $\frac{3}{4}$ " inc., advancing in thickness by 16ths.
4 "	×	$\frac{5}{16}$ " to $\frac{3}{8}$ " inc., advancing in thickness by 16ths.

HEXAGONS

$\frac{1}{4}$ " to $\frac{3}{8}$ " inc., increasing by 32ds; 1 " to $2\frac{1}{4}$ " inc., increasing by 16ths.

HOOPS AND BANDS

Minimum Width	Thickness	Maximum Width	Recogging	
			Minimum	Maximum
$\frac{3}{8}$	$\frac{8}{16}$	$15\frac{1}{4}$	....	....
$\frac{3}{8}$	$\frac{11}{64}$	$15\frac{1}{4}$	....	....
$\frac{3}{8}$	$\frac{5}{32}$	$15\frac{1}{4}$	....	....
$\frac{3}{8}$	$\frac{9}{64}$	$15\frac{1}{4}$	....	....
$\frac{3}{8}$	$\frac{1}{8}$	12	....	....
$\frac{3}{8}$	$\frac{7}{64}$	$10\frac{1}{4}$	....	....
$\frac{3}{8}$	$\frac{8}{32}$	$8\frac{5}{8}$	....	....
$\frac{3}{8}$	$\frac{5}{64}$	7	....	....
$\frac{3}{8}$	$\frac{1}{16}$	$6\frac{3}{4}$	....	....
$\frac{3}{8}$	$\frac{3}{64}$	$4\frac{1}{2}$	....	....
$\frac{3}{8}$	$\frac{1}{32}$	$2\frac{1}{4}$	....	$2\frac{3}{4}$

Minimum Width	Gauges	Maximum Width	Recogging	
			Minimum	Maximum
$\frac{3}{8}$	1	$15\frac{1}{4}$	....	....
$\frac{3}{8}$	2	$15\frac{1}{4}$	....	....
$\frac{3}{8}$	3	$15\frac{1}{4}$	....	....
$\frac{3}{8}$	4	$15\frac{1}{4}$	....	....
$\frac{3}{8}$	5	$15\frac{1}{4}$	....	....
$\frac{3}{8}$	6	$15\frac{1}{4}$	....	....
$\frac{3}{8}$	7	14	....	....
$\frac{3}{8}$	8	14	....	....
$\frac{3}{8}$	9	14	....	....
$\frac{3}{8}$	10	12	....	....
$\frac{3}{8}$	11	12	....	....
$\frac{3}{8}$	12	$10\frac{1}{4}$	....	....
$\frac{3}{8}$	13	$8\frac{5}{8}$	....	....
$\frac{3}{8}$	14	$8\frac{5}{8}$	....	....
$\frac{3}{8}$	15	$6\frac{3}{4}$	....	....
$\frac{3}{8}$	16	$6\frac{3}{4}$	....	....
$\frac{3}{8}$	17	$4\frac{3}{4}$	....	5

HOOPS AND BANDS—Continued

Minimum Width	Gauges	Maximum Width	Recooging	
			Minimum	Maximum
$\frac{3}{8}$	18	$4\frac{1}{2}$	.....	.....
$\frac{7}{16}$	19	4	$\frac{3}{8}$	.....
$\frac{1}{2}$	20	3	$\frac{3}{8}$	.....
$\frac{1}{2}$	21	3	$\frac{3}{8}$	.....
$\frac{1}{2}$	22	$2\frac{1}{4}$	$\frac{3}{8}$	.....
$\frac{1}{2}$	23	1	$\frac{3}{8}$	.....
$\frac{5}{8}$	24	1	$\frac{1}{2}$	.....
$\frac{5}{8}$	25	1	$\frac{1}{2}$	.....
$\frac{5}{8}$	26	$1\frac{3}{16}$	$\frac{1}{2}$	.....

FLATS

Width, Inches	Thickness, Inches	Width, Inches	Thickness, Inches
$\frac{5}{8}$	$\frac{3}{16}$ to $\frac{5}{8}$	$3\frac{5}{8}$	$\frac{3}{16}$ to $1\frac{1}{2}$
$\frac{3}{4}$	$\frac{3}{16}$ to $\frac{3}{4}$	$3\frac{3}{4}$	$\frac{3}{16}$ to $1\frac{1}{2}$
$\frac{7}{8}$	$\frac{3}{16}$ to $\frac{7}{8}$	4	$\frac{3}{16}$ to $1\frac{3}{4}$
1	$\frac{3}{16}$ to $\frac{7}{8}$	$4\frac{1}{8}$	$\frac{3}{16}$ to $1\frac{1}{2}$
$1\frac{1}{8}$	$\frac{3}{16}$ to $\frac{7}{8}$	$4\frac{1}{4}$	$\frac{3}{16}$ to $1\frac{1}{2}$
$1\frac{1}{4}$	$\frac{3}{16}$ to $\frac{7}{8}$	$4\frac{3}{8}$	$\frac{3}{16}$ to $1\frac{1}{2}$
$1\frac{3}{8}$	$\frac{3}{16}$ to $\frac{7}{8}$	$4\frac{1}{2}$	$\frac{3}{16}$ to $1\frac{1}{2}$
$1\frac{1}{2}$	$\frac{3}{16}$ to 1	$4\frac{5}{8}$	$\frac{3}{16}$ to $1\frac{1}{2}$
$1\frac{5}{8}$	$\frac{3}{16}$ to 1	$4\frac{3}{4}$	$\frac{3}{16}$ to $1\frac{1}{2}$
$1\frac{3}{4}$	$\frac{3}{16}$ to 1	$4\frac{7}{8}$	$\frac{3}{16}$ to $1\frac{1}{2}$
$1\frac{7}{8}$	$\frac{3}{16}$ to 1	5	$\frac{3}{16}$ to $2\frac{1}{4}$
2	$\frac{3}{16}$ to 1	$5\frac{1}{8}$	$\frac{3}{16}$ to $1\frac{1}{2}$
$2\frac{1}{4}$	$\frac{3}{16}$ to 1	$5\frac{1}{4}$	$\frac{3}{16}$ to $1\frac{1}{2}$
$2\frac{3}{8}$	$\frac{3}{16}$ to 1	$5\frac{3}{8}$	$\frac{3}{16}$ to $1\frac{1}{2}$
$2\frac{1}{2}$	$\frac{3}{16}$ to 1	$5\frac{1}{2}$	$\frac{3}{16}$ to $1\frac{1}{2}$
$2\frac{5}{8}$	$\frac{3}{16}$ to 1	$5\frac{5}{8}$	$\frac{3}{16}$ to $1\frac{1}{2}$
$2\frac{3}{4}$	$\frac{3}{16}$ to 1	$5\frac{3}{4}$	$\frac{3}{16}$ to $1\frac{1}{2}$
3	$\frac{3}{16}$ to $1\frac{3}{4}$	$5\frac{7}{8}$	$\frac{3}{16}$ to $1\frac{1}{2}$
$3\frac{1}{8}$	$\frac{3}{16}$ to $1\frac{3}{4}$	6	$\frac{3}{16}$ to $2\frac{1}{4}$
$3\frac{1}{4}$	$\frac{3}{16}$ to $1\frac{3}{4}$	7	$\frac{3}{16}$ to $2\frac{1}{4}$
$3\frac{3}{8}$	$\frac{3}{16}$ to $1\frac{3}{4}$	8	$\frac{3}{16}$ to $2\frac{1}{4}$
$3\frac{1}{2}$	$\frac{3}{16}$ to $1\frac{3}{4}$		

ROUND EDGE FLATS FACE MEASUREMENTS—STEEL

$\frac{5}{8}$ " to 3" \times $\frac{1}{8}$ " to 1"—Advancing in both width and thickness by 64ths.

$3\frac{1}{4}$ " \times $\frac{3}{8}$ " to $1\frac{1}{8}$ "

$3\frac{1}{2}$ " \times $\frac{3}{8}$ " to $1\frac{1}{8}$ "

$3\frac{3}{4}$ " \times $\frac{3}{8}$ " to $1\frac{1}{8}$ "

4 " \times $\frac{3}{8}$ " to $1\frac{1}{8}$ "

ROUND EDGE FLATS FACE MEASUREMENTS—IRON

$\frac{3}{4}$ " to 2" \times $\frac{3}{16}$ " to 1"—Advancing in both width and thickness by 64ths.

$2\frac{1}{4}$ " \times $\frac{3}{8}$ " to $1\frac{1}{8}$ "

$2\frac{1}{2}$ " \times $\frac{3}{8}$ " to $1\frac{1}{8}$ "

$2\frac{3}{4}$ " \times $\frac{3}{8}$ " to $1\frac{1}{8}$ "

3 " \times $\frac{3}{8}$ " to $1\frac{1}{8}$ "

$3\frac{1}{4}$ " \times $\frac{3}{8}$ " to $1\frac{1}{8}$ "

$3\frac{1}{2}$ " \times $\frac{3}{8}$ " to $1\frac{1}{8}$ "

$3\frac{3}{4}$ " \times $\frac{3}{8}$ " to $1\frac{1}{8}$ "

4 " \times $\frac{3}{8}$ " to $1\frac{1}{8}$ "

ROUND EDGE SPRING STEEL FLATS MEASUREMENTS OVER ALL

1 " \times $\frac{3}{16}$ " to $\frac{7}{16}$ "—Concaved or flat.

$1\frac{1}{8}$ " \times $\frac{3}{16}$ " to $\frac{7}{16}$ "—Concaved or flat.

$1\frac{1}{4}$ " \times $\frac{3}{16}$ " to $\frac{7}{16}$ "—Concaved or flat.

$1\frac{3}{8}$ " \times $\frac{3}{16}$ " to $\frac{7}{16}$ "—Concaved or flat.

$1\frac{1}{2}$ " \times No. 2 to No. 7—Concaved or flat.

$1\frac{3}{4}$ " \times No. 2 to No. 7—Concaved or flat.

2 " \times No. 2 to No. 7—Concaved or flat.

3 " \times $\frac{5}{16}$ ", $\frac{11}{32}$ ", $\frac{3}{8}$ ", $\frac{7}{16}$ ", $\frac{1}{2}$ "—Concaved or flat.

$3\frac{1}{4}$ " \times $\frac{5}{16}$ ", $\frac{11}{32}$ ", $\frac{3}{8}$ ", $\frac{7}{16}$ ", $\frac{1}{2}$ "—Concaved or flat.

$3\frac{1}{2}$ " \times $\frac{5}{16}$ ", $\frac{11}{32}$ ", $\frac{3}{8}$ ", $\frac{7}{16}$ ", $\frac{1}{2}$ "—Concaved or flat.

4 " \times $\frac{5}{16}$ ", $\frac{11}{32}$ ", $\frac{3}{8}$ ", $\frac{7}{16}$ ", $\frac{1}{2}$ "—Concaved or flat.

$4\frac{1}{2}$ " \times $\frac{5}{16}$ ", $\frac{11}{32}$ ", $\frac{3}{8}$ ", $\frac{7}{16}$ ", $\frac{1}{2}$ "—Concaved or flat.

5 " \times $\frac{5}{16}$ ", $\frac{11}{32}$ ", $\frac{3}{8}$ ", $\frac{7}{16}$ ", $\frac{1}{2}$ "—Flat only.

LIST OF EXTREME SIZES OF RECTANGULAR PLATES

SHEARED PLATES

Thickness Inches	Width, Inches																
	120	118	115	112	110	108	105	100	96	90	84	80	76	72	64	56	48
1/4	...	...	...	...	...	...	...	100	130	160	190	245	260	275	300	350	430
5/16	...	...	...	...	...	...	150	160	200	210	220	275	300	320	350	400	500
3/8	...	...	...	...	160	170	200	200	310	330	360	380	400	420	460	500	500
1/2	...	...	...	140	160	160	200	230	245	310	340	380	400	420	430	480	500
5/8	...	...	140	160	170	200	220	240	290	330	360	370	390	410	480	500	500
3/4	...	...	140	165	170	190	210	230	270	290	340	360	370	390	450	500	500
7/8	130	135	140	160	160	180	200	220	240	260	300	310	330	350	400	480	500
1	130	135	150	155	160	180	190	200	220	240	260	280	310	330	380	430	500
1 1/8	125	130	150	155	160	180	190	200	210	230	250	280	300	320	360	410	480
1 1/4	125	130	140	150	150	170	180	190	200	215	245	260	280	300	340	380	450
1 1/2	125	125	130	135	140	160	170	180	190	205	220	230	260	270	320	360	430
1 3/4	120	120	125	125	130	150	160	170	180	195	215	230	240	250	290	330	380
2	120	120	120	120	120	140	145	150	160	175	190	210	220	230	260	300	350
2 1/4	...	...	...	112	110	120	125	140	145	155	175	185	195	205	230	265	310
2 1/2	...	...	...	112	...	110	120	140	145	155	175	185	195	200	225	260	300

Plates of greater dimensions than shown in the above table may be submitted for special consideration.

For intermediate widths not shown, use the dimensions of the next greatest width in the above table.

UNIVERSAL MILL PLATES

Thickness Inches	Width, Inches									
	48-46 Inclu- sive	45-41 Inclu- sive	40-36 Inclu- sive	35-31 Inclu- sive	30-26 Inclu- sive	25-21 Inclu- sive	20-17 Inclu- sive	16-15 Inclu- sive	14-11 Inclu- sive	10-7 Inclu- sive
1/4	....	....	....	....	....	540	540	540	540	540
5/16	....	....	....	480	480	600	600	600	600	600
3/8	840	840	960	1080	1080	1200	1200	960	900	840
1/2	960	960	960	1080	1080	1200	1200	960	900	840
5/8	960	960	1080	1080	1080	1080	1080	1020	1020	840
3/4	960	960	960	960	1020	1020	1020	1020	1020	840
7/8	780	780	780	780	780	900	960	960	900	840
1	600	600	600	600	720	840	960	960	900	840
1 1/8	420	420	480	540	600	780	900	960	900	840
1 1/4	360	360	420	480	480	720	780	780	840	840
1 1/2	324	324	360	420	480	600	720	780	840	840
1 3/4	324	300	300	360	360	540	600	780	840	840
1 7/8	300	300	300	300	360	480	600	720	840	840
2	240	240	240	240	300	300	300	660	840	840
2 1/4	240	240	240	240	300	300	300	240	....	....
2 1/2	180	180	180	180	240	240	240	180	....	....
2 3/4	180	180	180	180	240	240	240	180	....	....

Plates of greater dimensions than shown in the above table may be submitted for special consideration.

Both Sheared and Universal Mill Plates of extreme dimensions, as shown in the above tables, are subject to special prices.

**LIST OF EXTREME SIZES OF RECTANGULAR
STEEL SHEETS $\frac{3}{16}$ INCH
AND LIGHTER**

Thickness	68 Inch Width	66 Inch Width	64 Inch Width	62 Inch Width	60 Inch Width	58 Inch Width	56 Inch Width	54 Inch Width
No. 8, $\frac{3}{16}$ B.W.G.	160	180	180	192	216	228	240	252
" 9, "	160	180	180	182	186	190	196	200
" 10, "	....	160	160	166	172	184	190	200
" 11, "	....	140	145	155	160	168	176	180
" 12, "	....	120	130	140	150	155	165	170
" 12, "	....	108	115	124	130	140	150	160
Thickness	52 Inch Width	50 Inch Width	48 Inch Width	44 Inch Width	40 Inch Width	36 Inch Width	24 Inch Width	..........
No. 8, $\frac{3}{16}$ B.W.G.	264	288	300	316	360	360	360	....
" 9, "	212	224	240	240	264	264	264	....
" 10, "	212	220	224	236	248	248	248	....
" 11, "	196	200	212	212	212	212	212	....
" 12, "	180	186	192	196	200	200	200	....
" 12, "	170	176	180	180	180	180	180	....

**LIST OF EXTREME SIZES OF CIRCULAR
PLATES ROLLED BY CARNEGIE
STEEL COMPANY**

Thickness in Inches	Diameter in Inches	Thickness in Inches	Diameter in Inches
$\frac{1}{4}$	102	$\frac{3}{4}$	120
$\frac{5}{16}$	108	$\frac{13}{16}$	120
$\frac{3}{8}$	110	$\frac{7}{8}$	120
$\frac{7}{16}$	115	1	120
$\frac{1}{2}$	115	$1\frac{1}{8}$	112
$\frac{9}{16}$	115	$1\frac{1}{4}$	112
$\frac{5}{8}$	120	$1\frac{1}{2}$	112
$\frac{11}{16}$	120		

APPROXIMATE WEIGHTS PER LINEAL FOOT OF STEEL BANDS AND HOOPS

Gauge	Width					
	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{11}{16}$
1	.3825	.4463	.5100	.5738	.6375	.7013
2	.3621	.4225	.4828	.5432	.6035	.6639
3	.3302	.3852	.4403	.4953	.5503	.6054
4	.3035	.3540	.4046	.4552	.5058	.5563
5	.2805	.3273	.3740	.4208	.4675	.5143
6	.2588	.3020	.3451	.3882	.4314	.4745
7	.2295	.2678	.3060	.3443	.3825	.4208
8	.2104	.2424	.2805	.3156	.3506	.3857
9	.1887	.2202	.2516	.2831	.3145	.3460
10	.1709	.1993	.2278	.2563	.2848	.3132
11	.1530	.1785	.2040	.2295	.2550	.2805
12	.1390	.1621	.1853	.2085	.2316	.2548
13	.1211	.1413	.1615	.1817	.2019	.2221
14	.1058	.1235	.1411	.1587	.1764	.1940
15	.0918	.1071	.1224	.1377	.1530	.1683
16	.0829	.0967	.1105	.1243	.1381	.1519
17	.0740	.0863	.0986	.1109	.1233	.1356
18	.0625	.0729	.0833	.0937	.1041	.1145
19	.0536	.0625	.0714	.0803	.0893	.0982
20	.0446	.0521	.0595	.0669	.0744	.0818
21	.0408	.0476	.0544	.0612	.0680	.0748
22	.0357	.0417	.0476	.0536	.0595	.0655
23	.0319	.0372	.0425	.0478	.0531	.0584
24	.0281	.0327	.0374	.0421	.0468	.0514
Inches						
$\frac{1}{8}$	.0398	.0464	.0503	.0597	.0663	.0729
$\frac{3}{16}$	.0597	.0696	.0796	.0895	.0995	.1094
$\frac{1}{4}$	.0797	.0930	.1063	.1196	.1328	.1461
$\frac{5}{16}$	.0996	.1162	.1328	.1494	.1660	.1826
$\frac{3}{8}$	.1195	.1394	.1593	.1792	.1991	.2191
$\frac{7}{16}$	.1394	.1626	.1858	.2091	.2323	.2555
$\frac{1}{2}$	.1594	.1860	.2125	.2391	.2657	.2922
$\frac{9}{16}$	.1793	.2092	.2390	.2689	.2988	.3286
$\frac{5}{8}$	.1992	.2324	.2656	.2988	.3319	.3651
$\frac{11}{16}$	.2191	.2555	.2921	.3286	.3651	.4016
$\frac{3}{4}$	.2391	.2789	.3188	.3586	.3984	.4383

APPROXIMATE WEIGHTS PER LINEAL FOOT OF STEEL BANDS AND HOOPS—Continued

Gauge	Width					
	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{4}$	1	$1\frac{1}{8}$
1	.7650	.8288	.8925	.9563	1.0200	1.0838
2	.7242	.7846	.8449	.9053	.9656	1.0260
3	.6604	.7155	.7705	.8255	.8806	.9356
4	.6069	.6575	.7081	.7586	.8092	.8598
5	.5610	.6078	.6545	.7013	.7480	.7948
6	.5177	.5608	.6039	.6471	.6902	.7333
7	.4590	.4973	.5355	.5738	.6120	.6503
8	.4208	.4558	.4909	.5259	.5610	.5961
9	.3774	.4089	.4403	.4718	.5032	.5347
10	.3417	.3702	.3987	.4271	.4556	.4841
11	.3060	.3315	.3570	.3825	.4080	.4355
12	.2780	.3011	.3243	.3474	.3706	.3938
13	.2423	.2624	.2826	.3028	.3230	.3432
14	.2117	.2293	.2469	.2646	.2822	.2998
15	.1836	.1989	.2142	.2295	.2448	.2601
16	.1658	.1796	.1934	.2072	.2210	.2348
17	.1479	.1602	.1726	.1849	.1972	.2095
18	.1250	.1354	.1458	.1562	.1666	.1770
19	.1071	.1160	.1250	.1339	.1428	.1517
20	.0893	.0967	.1041	.1116	.1190	.1264
21	.0816	.0884	.0952	.1020	.1088	.1156
22	.0714	.0774	.0833	.0893	.0952	.1012
23	.0638	.0691	.0744	.0797	.0850	.0903
24	.0561	.0608	.0655	.0701	.0748	.0795
Inches						
$\frac{1}{8}$	.0796	.0862	.0929	.0995	.1061	.1127
$\frac{3}{16}$	.1193	.1293	.1392	.1492	.1591	.1691
$\frac{1}{4}$	.1594	.1727	.1860	.1992	.2125	.2258
$\frac{5}{16}$	.1992	.2158	.2323	.2489	.2655	.2821
$\frac{3}{8}$	.2384	.2589	.2788	.2987	.3186	.3385
$\frac{7}{16}$	.2781	.3020	.3252	.3484	.3716	.3949
$\frac{1}{2}$	.3188	.3453	.3719	.3985	.4250	.4516
$\frac{9}{16}$	.3585	.3884	.4183	.4482	.4780	.5079
$\frac{5}{8}$	.3983	.4315	.4647	.4979	.5311	.5643
$\frac{11}{16}$	.4381	.4746	.5111	.5476	.5841	.6206
$\frac{3}{4}$	.4781	.5180	.5578	.5977	.6375	.6773

APPROXIMATE WEIGHTS PER LINEAL FOOT OF STEEL BANDS AND HOOPS—Continued

Gauge	Width					
	1½	1¾	1⅝	1⅞	1⅞	1⅞
1	1.1475	1.2113	1.2750	1.3388	1.4025	1.4663
2	1.0863	1.1467	1.2070	1.2674	1.3277	1.3881
3	.9907	1.0457	1.1008	1.1558	1.2108	1.2659
4	.9104	.9609	1.0115	1.0621	1.1127	1.1632
5	.8416	.8883	.9350	.9818	1.0285	1.0753
6	.7765	.8196	.8628	.9059	.9490	.9922
7	.6885	.7268	.7650	.8033	.8415	.8798
8	.6311	.6662	.7013	.7363	.7714	.8064
9	.5661	.5976	.6290	.6605	.6919	.7234
10	.5126	.5410	.5695	.5980	.6265	.6549
11	.4590	.4845	.5100	.5355	.5610	.5865
12	.4169	.4401	.4633	.4864	.5096	.5327
13	.3634	.3836	.4038	.4239	.4441	.4643
14	.3175	.3351	.3528	.3704	.3880	.4057
15	.2754	.2907	.3060	.3213	.3366	.3519
16	.2486	.2624	.2763	.2901	.3039	.3177
17	.2219	.2342	.2465	.2588	.2712	.2835
18	.1874	.1978	.2083	.2187	.2291	.2395
19	.1607	.1596	.1785	.1874	.1964	.2053
20	.1339	.1413	.1488	.1562	.1636	.1711
21	.1224	.1292	.1360	.1428	.1496	.1564
22	.1071	.1131	.1190	.1250	.1309	.1369
23	.0956	.1009	.1063	.1116	.1169	.1222
24	.0842	.0888	.0935	.0982	.1029	.1075
Inches						
$\frac{1}{32}$	.1194	.1260	.1326	.1393	.1459	.1525
$\frac{3}{64}$	.1790	.1890	.1989	.2088	.2188	.2287
$\frac{1}{16}$	.2391	.2524	.2656	.2789	.2922	.3055
$\frac{5}{64}$	.2987	.3153	.3319	.3485	.3652	.3817
$\frac{3}{32}$	.3584	.3783	.3983	.4182	.4381	.4580
$\frac{7}{64}$	.4181	.4413	.4645	.4878	.5110	.5342
$\frac{1}{8}$	.4782	.5047	.5313	.5578	.5844	.6110
$\frac{9}{64}$	.5378	.5677	.5975	.6274	.6573	.6872
$\frac{5}{32}$	.5975	.6307	.6639	.6971	.7302	.7634
$\frac{11}{64}$	.6571	.6936	.7301	.7667	.8032	.8397
$\frac{3}{8}$	.7172	.7570	.7969	.8367	.8766	.9164

APPROXIMATE WEIGHTS PER LINEAL FOOT OF STEEL BANDS AND HOOPS—Continued

Gauge	Width					
	1½	1⅞	1⅝	1⅞	1¾	1⅞
1	1.5300	1.5938	1.6575	1.7213	1.7850	1.8488
2	1.4484	1.5088	1.5691	1.6295	1.6898	1.7502
3	1.3209	1.3759	1.4310	1.4860	1.5411	1.5961
4	1.2138	1.2644	1.3150	1.3655	1.4161	1.4667
5	1.1220	1.1688	1.2155	1.2623	1.3090	1.3558
6	1.0353	1.0784	1.1216	1.1647	1.2079	1.2510
7	.9180	.9563	.9945	1.0328	1.0710	1.1093
8	.8415	.8766	.9116	.9467	.9818	1.0168
9	.7548	.7862	.8177	.8492	.8806	.9121
10	.6834	.7119	.7404	.7588	.7973	.8258
11	.6120	.6375	.6630	.6885	.7140	.7395
12	.5559	.5791	.6022	.6254	.6486	.6717
13	.4845	.5047	.5249	.5451	.5653	.5854
14	.4233	.4409	.4586	.4762	.4939	.5115
15	.3672	.3825	.3978	.4131	.4284	.4437
16	.3315	.3453	.3591	.3729	.3868	.4006
17	.2958	.3081	.3205	.3328	.3451	.3574
18	.2499	.2603	.2707	.2811	.2916	.3020
19	.2142	.2231	.2321	.2410	.2499	.2588
20	.1785	.1859	.1934	.2008	.2083	.2157
21	.1632	.1700	.1768	.1836	.1904	.1972
22	.1428	.1488	.1547	.1607	.1666	.1726
23	.1275	.1328	.1381	.1434	.1488	.1541
24	.1122	.1169	.1216	.1262	.1309	.1356
Inches						
1 8	.1591	.1658	.1724	.1790	.1857	.1923
3 4	.2387	.2486	.2586	.2685	.2785	.2884
1 2	.3188	.3321	.3453	.3586	.3719	.3852
5 4	.3983	.4149	.4315	.4481	.4647	.4813
3 2	.4779	.4978	.5177	.5376	.5575	.5775
7 4	.5574	.5807	.6039	.6271	.6504	.6736
1 2	.6375	.6641	.6906	.7172	.7438	.7703
9 4	.7170	.7469	.7768	.8067	.8365	.8664
5 2	.7966	.8298	.8630	.8962	.9294	.9626
11 4	.8762	.9127	.9492	.9857	1.0222	1.0587
3 2	.9563	.9961	1.0359	1.0758	1.1156	1.1555

APPROXIMATE WEIGHTS PER LINEAL FOOT OF STEEL BANDS AND HOOPS—Continued

Gauge	Width					
	1½	1½½	2	2½	2½½	2¾
1	1.9125	1.9763	2.0400	2.1038	2.1675	2.2313
2	1.8105	1.8709	1.9312	1.9916	2.0519	2.1123
3	1.6511	1.7062	1.7612	1.8163	2.8713	1.9263
4	1.5173	1.5678	1.6184	1.6690	1.7196	1.7701
5	1.4025	1.4493	1.4960	1.5428	1.5895	1.6363
6	1.2941	1.3373	1.3804	1.4235	1.4667	1.5098
7	1.1475	1.1858	1.2240	1.2623	1.3005	1.3388
8	1.0519	1.0869	1.1220	1.1571	1.1921	1.2272
9	.9435	.9750	1.0064	1.0379	1.0693	1.1008
10	.8543	.8827	.9112	.9397	.9682	.9966
11	.7650	.7905	.8160	.8415	.8670	.8925
12	.6949	.7180	.7412	.7644	.7875	.8107
13	.6056	.6258	.6460	.6662	.6864	.7066
14	.5291	.5468	.5644	.5820	.5997	.6173
15	.4590	.4743	.4896	.5049	.5202	.5355
16	.4144	.4282	.4420	.4558	.4696	.4834
17	.3698	.3821	.3944	.4067	.4191	.4314
18	.3124	.3228	.3332	.3436	.3540	.3644
19	.2678	.2767	.2856	.2945	.3035	.3124
20	.2231	.2306	.2380	.2454	.2529	.2603
21	.2040	.2108	.2176	.2244	.2312	.2380
22	.1785	.1845	.1904	.1964	.2023	.2083
23	.1594	.1647	.1700	.1753	.1806	.1859
24	.1403	.1449	.1496	.1543	.1590	.1636
Inches						
$\frac{1}{8}$	.1989	.2056	.2122	.2188	.2254	.2321
$\frac{3}{16}$	.2984	.3083	.3182	.3282	.3381	.3481
$\frac{1}{4}$	.3985	.4117	.4250	.4383	.4516	.4649
$\frac{5}{16}$	.4979	.5145	.5311	.5477	.5643	.5809
$\frac{3}{8}$	.5974	.6173	.6372	.6571	.6770	.6969
$\frac{7}{16}$	.6968	.7200	.7432	.7665	.7897	.8129
$\frac{1}{2}$	.7969	.8235	.8500	.8766	.9032	.9297
$\frac{9}{16}$	.8963	.9262	.9561	.9859	1.0158	1.0457
$\frac{5}{8}$	.9958	1.0290	1.0622	1.0954	1.1286	1.1618
$\frac{11}{16}$	1.0952	1.1318	1.1682	1.2047	1.2412	1.2777
$\frac{3}{4}$	1.1953	1.2352	1.2750	1.3141	1.3547	1.3945

APPROXIMATE WEIGHTS PER LINEAL FOOT OF STEEL BANDS AND HOOPS—Continued

Gauge	Width					
	2¼	2½	2¾	2⅞	2⅞	2⅞
1	2.2950	2.3588	2.4245	2.4863	2.5500	2.6138
2	2.1726	2.2330	2.2933	2.3537	2.4140	2.4744
3	1.9814	2.0364	2.0914	2.1465	2.2015	2.2565
4	1.8207	1.8713	1.9219	1.9724	2.0230	2.0736
5	1.6830	1.7298	1.7765	1.8233	1.8700	1.9163
6	1.5530	1.5960	1.6392	1.6824	1.7255	1.7686
7	1.3770	1.4153	1.4535	1.4918	1.5300	1.5683
8	1.2623	1.2973	1.3324	1.3674	1.4025	1.4376
9	1.1322	1.1636	1.1951	1.2266	1.2580	1.2895
10	1.0251	1.0536	1.0821	1.1105	1.1390	1.1675
11	.9180	.9435	.9690	.9945	1.0200	1.0455
12	.8339	.8570	.8802	.9033	.9265	.9497
13	.7268	.7469	.7671	.7873	.8075	.8277
14	.6350	.6526	.6702	.6879	.7055	.7231
15	.5508	.5661	.5814	.5967	.6120	.6273
16	.4973	.5111	.5249	.5387	.5525	.5663
17	.4437	.4560	.4684	.4807	.4930	.5053
18	.3749	.3853	.3957	.4061	.4165	.4269
19	.3213	.3302	.3392	.3481	.3570	.3659
20	.2678	.2752	.2826	.2901	.2975	.3049
21	.2448	.2516	.2584	.2652	.2720	.2788
22	.2142	.2202	.2261	.2321	.2380	.2440
23	.1913	.1966	.2019	.2072	.2125	.2178
24	.1683	.1730	.1777	.1823	.1870	.1917
Inches						
1 8	.2387	.2453	.2520	.2586	.2652	.2719
3 8	.3580	.3680	.3779	.3879	.3978	.4078
1 6	.4782	.4914	.5047	.5180	.5313	.5446
5 8	.5975	.6141	.6307	.6473	.6639	.6805
3 2	.7168	.7367	.7567	.7766	.7965	.8164
7 8	.8362	.8594	.8826	.9058	.9291	.9523
1 4	.9563	.9828	1.0094	1.0360	1.0625	1.0891
9 8	1.0755	1.1054	1.1360	1.1652	1.1950	1.2249
5 2	1.1949	1.2281	1.2613	1.2945	1.3277	1.3609
1 2	1.3143	1.3508	1.3873	1.4238	1.4603	1.4968
3 4	1.4344	1.4742	1.5140	1.5539	1.5938	1.6336

APPROXIMATE WEIGHTS PER LINEAL FOOT OF STEEL BANDS AND HOOPS—Continued

Gauge	Width					
	2 $\frac{5}{8}$	2 $\frac{1}{2}$	2 $\frac{3}{4}$	2 $\frac{1}{2}$	2 $\frac{7}{8}$	2 $\frac{1}{2}$
1	2.6775	2.7413	2.8050	2.8688	2.9325	2.9963
2	2.5347	2.5951	2.6554	2.7158	2.7761	2.8365
3	2.3116	2.3666	2.4217	2.4767	2.5317	2.5868
4	2.1242	2.1747	2.2253	2.2759	2.3265	2.3770
5	1.9635	2.0103	2.0570	2.1038	2.1505	2.1973
6	1.8118	1.8549	1.8981	1.9412	1.9843	1.0275
7	1.6065	1.6448	1.6830	1.7213	1.7595	1.7978
8	1.4726	1.5077	1.5428	1.5778	1.6120	1.6479
9	1.3209	1.3524	1.3838	1.4153	1.4467	1.4782
10	1.1960	1.2244	1.1529	1.2814	1.3099	1.3383
11	1.0710	1.0965	1.1220	1.1475	1.1730	1.1985
12	.9728	.9960	1.0192	1.0423	1.0655	1.0886
13	.8479	.8681	.8883	.9084	.9286	.9488
14	.7408	.7584	.7761	.7937	.8113	.8290
15	.6426	.6579	.6732	.6885	.7038	.7191
16	.5801	.5939	.6078	.6216	.6354	.6492
17	.5177	.5300	.5423	.5546	.5670	.5793
18	.4373	.4477	.4582	.4686	.4790	.4894
19	.3749	.3838	.3927	.4016	.4106	.4195
20	.3124	.3198	.3273	.3347	.3421	.3496
21	.2856	.2934	.2992	.3060	.3128	.3196
22	.2499	.2559	.2618	.2678	.2737	.2797
23	.2231	.2284	.2338	.2391	.2444	.2497
24	.1964	.2010	.2057	.2104	.2151	.2197
Inches						
$\frac{1}{8}$	.2785	.2851	.2917	.2984	.3050	.3116
$\frac{3}{16}$	.4177	.4276	.4376	.4475	.4575	.4674
$\frac{1}{4}$	.5578	.5711	.5844	.5977	.6110	.6242
$\frac{5}{16}$	.6971	.7137	.7303	.7469	.7634	.7800
$\frac{3}{8}$	.8363	.8562	.8761	.8960	.9159	.9359
$\frac{7}{16}$	.9755	.9987	1.0220	1.0452	1.0684	1.0917
$\frac{1}{2}$	1.1157	1.1422	1.1688	1.1953	1.2219	1.2485
$\frac{9}{16}$	1.2548	1.2847	1.3145	1.3444	1.3743	1.4042
$\frac{5}{8}$	1.3941	1.4273	1.4605	1.4937	1.5269	1.5601
$\frac{3}{4}$	1.5333	1.5698	1.6063	1.6428	1.6793	1.7158
$\frac{7}{8}$	1.6734	1.7133	1.7531	1.7930	1.8328	1.8726

APPROXIMATE WEIGHTS PER LINEAL FOOT OF STEEL BANDS AND HOOPS—Continued

Gauge	Width					
	3	3½	3¾	3⅞	3½	3⅝
1	3.0600	3.1875	3.3150	3.4425	3.5700	3.6975
2	2.8968	3.0175	3.1382	3.2589	3.3796	3.5003
3	2.6418	2.7519	2.8620	2.9720	3.0821	3.1922
4	2.4276	2.5288	2.6299	2.7311	2.8322	2.9334
5	2.2440	2.3375	2.4310	2.5245	2.6180	2.7115
6	2.0706	2.1569	2.2432	2.3294	2.4157	2.5020
7	1.8360	1.9125	1.9890	2.0655	2.1420	2.2185
8	1.6830	1.6531	1.8233	1.8934	1.9635	2.0336
9	1.5096	1.5725	1.6354	1.6983	1.7612	1.8241
10	1.3668	1.4238	1.4807	1.5377	1.5946	1.6516
11	1.2240	1.2750	1.3260	1.3770	1.4280	1.4790
12	1.1118	1.1581	1.2045	1.2508	1.2971	1.3434
13	.9690	1.0094	1.0498	1.0901	1.1305	1.1709
14	.8466	.8819	.9172	.9524	.9877	1.0230
15	.7344	.7650	.7956	.8262	.8568	.8874
16	.6630	.6906	.7183	.7459	.7735	.8011
17	.5916	.6163	.6409	.6656	.6902	.7149
18	.4998	.5206	.5415	.5623	.5831	.6039
19	.4284	.4463	.4641	.4820	.4998	.5177
20	.3570	.3719	.3868	.4016	.4165	.4314
21	.3264	.3400	.3536	.3672	.3808	.3944
22	.2856	.2975	.3094	.3213	.3332	.3451
23	.2550	.2656	.2763	.2869	.2975	.3081
24	.2244	.2338	.2431	.2525	.2618	.2712
Inches						
$\frac{1}{32}$	.3182	.3315	.3448	.3580	.3713	.3846
$\frac{3}{64}$	.4774	.4973	.5171	.5370	.5569	.5768
$\frac{1}{16}$	.6375	.6641	.6907	.7172	.7438	.7703
$\frac{3}{64}$	.7966	.8298	.8630	.8962	.9294	.9626
$\frac{3}{32}$	.9557	.9956	1.0354	1.0752	1.1151	1.1549
$\frac{7}{64}$	1.1149	1.1613	1.2078	1.2542	1.3007	1.3471
$\frac{1}{8}$	1.2750	1.3281	1.3813	1.4344	1.4875	1.5407
$\frac{9}{64}$	1.4341	1.4938	1.5535	1.6133	1.6730	1.7328
$\frac{5}{32}$	1.5932	1.6596	1.7260	1.7924	1.8588	1.9252
$\frac{11}{64}$	1.7524	1.8254	1.8984	1.9715	2.0445	2.1175
$\frac{3}{16}$	1.9125	1.9922	2.0719	2.1516	2.2313	2.3109

APPROXIMATE WEIGHTS PER LINEAL FOOT OF STEEL BANDS AND HOOPS—Continued

Gauge	Width					
	3¾	3⅞	4	4¼	4½	4¾
1	3.8250	3.9525	4.0800	4.3350	4.5900	4.8450
2	3.6210	3.7417	3.8624	4.1038	4.3452	4.5866
3	3.3023	3.4123	3.5224	3.7426	3.9627	4.1828
4	3.0345	3.1357	3.2368	3.4391	3.6414	3.8437
5	2.8050	2.8985	2.9920	3.1790	3.3660	3.5530
6	2.5883	2.6745	2.7608	2.9334	3.1059	3.2785
7	2.2950	2.3715	2.4480	2.6010	2.7540	2.9070
8	2.1038	2.1739	2.2440	2.3843	2.5245	2.6648
9	1.8870	1.9499	2.0128	2.1386	2.2644	2.3902
10	1.7085	1.7655	1.8224	1.9363	2.0502	2.1641
11	1.5300	1.5810	1.6320	1.7340	1.8360	1.9380
12	1.3898	1.4361	1.4824	1.5751	1.6677	1.7604
13	1.2113	1.2516	1.2920	1.3728	1.4535	1.5343
14	1.0583	1.0935	1.1288	1.1994	1.2699	1.3405
15	.9180	.9486	.9792	1.0404	1.1016	1.1628
16	.8288	.8564	.8840	.9393	.9945	1.0498
17	.7395	.7642	.7888	.8381	.8874	.9367
18	.6248	.6456	.6664	.7081	.7497	.7914
19	.5355	.5534	.5712	.6069	.6426	.6783
20	.4463	.4611	.4760	.5058	.5355	.5653
21	.4080	.4216	.4352	.4624	.4896	.5168
22	.3570	.3689	.3808	.4046	.4284	.4522
23	.3188	.3294	.3400	.3613	.3825	.4038
24	.2805	.2899	.2992	.3179	.3366	.3553
Inches						
$\frac{1}{8}$	.3978	.4111	.4243	.4509	.4774	.5039
$\frac{3}{32}$	.5967	.6166	.6365	.6763	.7060	.7558
$\frac{1}{4}$	.7969	.8235	.8500	.9032	.9563	1.0094
$\frac{5}{16}$	.9958	1.0290	1.0622	1.1286	1.1950	1.2613
$\frac{3}{8}$	1.1947	1.2345	1.2743	1.3540	1.4336	1.5133
$\frac{7}{16}$	1.3936	1.4400	1.4865	1.5794	1.6723	1.7652
$\frac{1}{2}$	1.5938	1.6469	1.7000	1.8063	1.9125	2.0188
$\frac{9}{16}$	1.7925	1.8523	1.9122	2.0316	2.1512	2.2705
$\frac{5}{8}$	1.9916	2.0579	2.1243	2.2571	2.3897	2.5227
$\frac{11}{16}$	2.1905	2.2635	2.3365	2.4826	2.6286	2.7746
$\frac{3}{4}$	2.3906	2.4703	2.5500	2.7094	2.8688	3.0281

APPROXIMATE WEIGHTS PER LINEAL FOOT OF STEEL BANDS AND HOOPS—Continued

Gauge	Width					
	5	5¼	5½	5¾	6	6¾
1	5.1000	5.3550	5.6100	5.8650	6.1200	6.3750
2	4.8280	5.0694	5.3108	5.5522	5.7936	6.0350
3	4.4030	4.6232	4.8433	5.0635	5.2836	5.5038
4	4.0460	4.2483	4.4506	4.6529	4.8552	5.0575
5	3.7400	3.9270	4.1140	4.3010	4.4880	4.6750
6	3.4510	3.6236	3.7962	3.9687	4.1412	4.3138
7	3.0600	3.2130	3.3660	3.5190	3.6720	3.8250
8	2.8050	2.9453	3.0855	3.2258	3.3660	3.5063
9	2.5160	2.6418	2.7676	2.8934	3.0192	3.1450
10	2.2780	2.3919	2.5058	2.6197	2.7336	2.8475
11	2.0400	2.1420	2.2440	2.3460	2.4480	2.5500
12	1.8530	1.9457	2.0383	2.1310	2.2236	2.3163
13	1.6150	1.6958	1.7765	1.8573	1.9380	2.0188
14	1.4110	1.4816	1.5521	1.6227	1.6932	1.7638
15	1.2240	1.2852	1.3464	1.4076	1.4688	1.5300
16	1.1050	1.1603	1.2155	1.2708	1.3260	1.3813
17	.9860	1.0353	1.0846	1.1339	1.1832	1.2325
18	.8330	.8747	.9163	.9580	.9996	1.0413
19	.7140	.7497	.7854	.8211	.8568	.8925
20	.5950	.6248	.6545	.6843	.7140	.7438
21	.5440	.5712	.5984	.6256	.6528	.6800
22	.4760	.4998	.5236	.5474	.5712	.5950
23	.4250	.4463	.4675	.4888	.5100	.5313
24	.3740	.3927	.4114	.4301	.4488	.4675
Inches						
$\frac{1}{8}$	.5304	.5569	.5835	.6100	.6365	.6630
$\frac{3}{16}$	.7956	.8354	.8752	.9149	.9547	.9945
$\frac{1}{4}$	1.0625	1.1157	1.1688	1.2219	1.2750	1.3282
$\frac{5}{16}$	1.3277	1.3941	1.4605	1.5270	1.5933	1.6596
$\frac{3}{8}$	1.5929	1.6726	1.7522	1.8319	1.9115	1.9912
$\frac{7}{16}$	1.8581	1.9510	2.0439	2.1368	2.2297	2.3226
$\frac{1}{2}$	2.1250	2.2313	2.3375	2.4438	2.5500	2.6563
$\frac{9}{16}$	2.3902	2.5096	2.6292	2.7487	2.8683	2.9877
$\frac{5}{8}$	2.6554	2.7882	2.9210	3.0547	3.1865	3.3193
$\frac{11}{16}$	2.9206	3.0667	3.2127	3.3587	3.5047	3.6508
$\frac{3}{4}$	3.1875	3.3469	3.5063	3.6656	3.8250	3.9844

AREAS OF FLAT ROLLED STEEL

For Thicknesses from $\frac{1}{8}$ in. to 2 in. and Widths from 1 in. to 12 $\frac{3}{4}$ in.

Thickness in Inches	1"	1 $\frac{1}{4}$ "	1 $\frac{1}{2}$ "	1 $\frac{3}{4}$ "	2"	2 $\frac{1}{4}$ "	2 $\frac{1}{2}$ "	2 $\frac{3}{4}$ "	12"
$\frac{1}{8}$	.063	.078	.094	.109	.125	.141	.156	.172	.750
$\frac{3}{16}$	.125	.156	.188	.219	.250	.281	.313	.344	1.50
$\frac{1}{4}$	.188	.234	.281	.328	.375	.422	.469	.516	2.25
$\frac{5}{16}$	.250	.313	.375	.438	.500	.563	.625	.688	3.00
$\frac{3}{8}$	.313	.391	.469	.547	.625	.703	.781	.859	3.75
$\frac{7}{16}$	.375	.469	.563	.656	.750	.844	.938	1.03	4.50
$\frac{1}{2}$	.438	.547	.656	.766	.875	.984	1.09	1.20	5.25
$\frac{9}{16}$	.500	.625	.750	.875	1.00	1.13	1.25	1.38	6.00
$\frac{5}{8}$	.563	.703	.844	.984	1.13	1.27	1.41	1.55	6.75
$\frac{11}{16}$	.625	.781	.938	1.09	1.25	1.41	1.56	1.72	7.50
$\frac{3}{4}$	.688	.859	1.03	1.20	1.38	1.55	1.72	1.89	8.25
$\frac{13}{16}$	.750	.938	1.13	1.31	1.50	1.69	1.88	2.06	9.00
$\frac{7}{8}$	.813	1.02	1.22	1.42	1.63	1.83	2.03	2.23	9.75
$\frac{15}{16}$	.875	1.09	1.31	1.53	1.75	1.97	2.19	2.41	10.50
1	.938	1.17	1.41	1.64	1.88	2.11	2.34	2.58	11.25
$1\frac{1}{16}$	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	12.00
$1\frac{1}{8}$	1.06	1.33	1.59	1.86	2.13	2.39	2.66	2.92	12.75
$1\frac{1}{4}$	1.13	1.41	1.69	1.97	2.25	2.53	2.81	3.09	13.50
$1\frac{3}{8}$	1.19	1.48	1.78	2.08	2.38	2.67	2.97	3.27	14.25
$1\frac{1}{2}$	1.25	1.56	1.88	2.19	2.50	2.81	3.13	3.44	15.00
$1\frac{5}{8}$	1.31	1.64	1.97	2.30	2.63	2.95	3.28	3.61	15.75
$1\frac{3}{4}$	1.38	1.72	2.06	2.41	2.75	3.09	3.44	3.78	16.50
$1\frac{7}{8}$	1.44	1.80	2.16	2.52	2.88	3.23	3.59	3.95	17.25
$1\frac{1}{2}$	1.50	1.88	2.25	2.63	3.00	3.38	3.75	4.13	18.00
$1\frac{9}{8}$	1.56	1.95	2.34	2.73	3.13	3.52	3.91	4.30	18.75
$1\frac{5}{4}$	1.63	2.03	2.44	2.84	3.25	3.66	4.06	4.47	19.50
$1\frac{11}{8}$	1.69	2.11	2.53	2.95	3.38	3.80	4.22	4.64	20.25
$1\frac{3}{4}$	1.75	2.19	2.63	3.06	3.50	3.94	4.38	4.81	21.00
$1\frac{13}{8}$	1.81	2.27	2.72	3.17	3.63	4.08	4.53	4.98	21.75
$1\frac{7}{4}$	1.88	2.34	2.81	3.28	3.75	4.22	4.69	5.16	22.50
$1\frac{15}{8}$	1.94	2.42	2.91	3.39	3.88	4.36	4.84	5.33	23.25
2	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	24.00

AREAS OF FLAT ROLLED STEEL—Continued

Thickness in Inches	3"	3¼"	3½"	3¾"	4"	4¼"	4½"	4¾"	12"
$\frac{1}{16}$	.188	.203	.219	.234	.250	.266	.281	.297	.750
$\frac{1}{8}$	.375	.406	.438	.469	.500	.531	.563	.594	1.50
$\frac{3}{8}$	.563	.609	.656	.703	.750	.797	.844	.891	2.25
$\frac{1}{4}$	.750	.813	.875	.938	1.00	1.06	1.13	1.19	3.00
$\frac{5}{16}$	.938	1.02	1.09	1.17	1.25	1.33	1.41	1.48	3.75
$\frac{3}{8}$	1.13	1.22	1.31	1.41	1.50	1.59	1.69	1.78	4.50
$\frac{7}{16}$	1.31	1.42	1.53	1.64	1.75	1.86	1.97	2.08	5.25
$\frac{1}{2}$	1.50	1.63	1.75	1.88	2.00	2.13	2.25	2.38	6.00
$\frac{9}{16}$	1.69	1.83	1.97	2.11	2.25	2.39	2.53	2.67	6.75
$\frac{5}{8}$	1.88	2.03	2.19	2.34	2.50	2.66	2.81	2.97	7.50
$\frac{11}{16}$	2.06	2.23	2.41	2.58	2.75	2.92	3.09	3.27	8.25
$\frac{3}{4}$	2.25	2.44	2.63	2.81	3.00	3.19	3.38	3.56	9.00
$\frac{13}{16}$	2.44	2.64	2.84	3.05	3.25	3.45	3.66	3.86	9.75
$\frac{7}{8}$	2.63	2.84	3.06	3.28	3.50	3.72	3.94	4.16	10.50
$\frac{15}{16}$	2.81	3.05	3.28	3.52	3.75	3.98	4.22	4.45	11.25
1	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	12.00
$1\frac{1}{16}$	3.19	3.45	3.72	3.98	4.25	4.52	4.78	5.05	12.75
$1\frac{1}{8}$	3.38	3.66	3.94	4.22	4.50	4.78	5.06	5.34	13.50
$1\frac{3}{8}$	3.56	3.86	4.16	4.45	4.75	5.05	5.34	5.64	14.25
$1\frac{1}{4}$	3.75	4.06	4.38	4.69	5.00	5.31	5.63	5.94	15.00
$1\frac{5}{16}$	3.94	4.27	4.59	4.92	5.25	5.58	5.91	6.23	15.75
$1\frac{3}{8}$	4.13	4.47	4.81	5.16	5.50	5.84	6.19	6.53	16.50
$1\frac{7}{16}$	4.31	4.67	5.03	5.39	5.75	6.11	6.47	6.83	17.25
$1\frac{1}{2}$	4.50	4.88	5.25	5.63	6.00	6.38	6.75	7.13	18.00
$1\frac{9}{16}$	4.69	5.08	5.47	5.86	6.25	6.64	7.03	7.42	18.75
$1\frac{5}{8}$	4.88	5.28	5.69	6.09	6.50	6.91	7.31	7.72	19.50
$1\frac{11}{16}$	5.06	5.48	5.91	6.33	6.75	7.17	7.59	8.02	20.25
$1\frac{3}{4}$	5.25	5.69	6.13	6.56	7.00	7.44	7.88	8.31	21.00
$1\frac{13}{16}$	5.44	5.89	6.34	6.80	7.25	7.70	8.16	8.61	21.75
$1\frac{7}{8}$	5.63	6.09	6.56	7.03	7.50	7.97	8.44	8.91	22.50
$1\frac{15}{16}$	5.81	6.30	6.78	7.27	7.75	8.23	8.72	9.20	23.25
2	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	24.00

AREAS OF FLAT ROLLED STEEL—Continued

Thickness in inches	5"	5¼"	5½"	5¾"	6"	6¼"	6½"	6¾"	12"
$\frac{1}{16}$	.313	.328	.344	.359	.375	.391	.406	.422	.750
$\frac{1}{8}$	.625	.656	.688	.719	.750	.781	.813	.844	1.50
$\frac{3}{16}$	.938	.984	1.03	1.08	1.13	1.17	1.22	1.27	2.25
$\frac{1}{4}$	1.25	1.31	1.38	1.44	1.50	1.56	1.63	1.69	3.00
$\frac{5}{16}$	1.56	1.64	1.72	1.80	1.88	1.95	2.03	2.11	3.75
$\frac{3}{8}$	1.88	1.97	2.06	2.16	2.25	2.34	2.44	2.53	4.50
$\frac{7}{16}$	2.19	2.30	2.41	2.52	2.63	2.73	2.84	2.95	5.25
$\frac{1}{2}$	2.50	2.63	2.75	2.88	3.00	3.13	3.25	3.38	6.00
$\frac{9}{16}$	2.81	2.95	3.09	3.23	3.38	3.52	3.66	3.80	6.75
$\frac{5}{8}$	3.13	3.28	3.44	3.59	3.75	3.91	4.06	4.22	7.50
$\frac{11}{16}$	3.44	3.61	3.78	3.95	4.13	4.30	4.47	4.64	8.25
$\frac{3}{4}$	3.75	3.94	4.13	4.31	4.50	4.69	4.88	5.06	9.00
$\frac{13}{16}$	4.06	4.27	4.47	4.67	4.88	5.08	5.28	5.48	9.75
$\frac{7}{8}$	4.38	4.59	4.81	5.03	5.25	5.47	5.69	5.91	10.50
$\frac{15}{16}$	4.69	4.92	5.16	5.39	5.63	5.86	6.09	6.33	11.25
1	5.00	5.25	5.50	5.75	6.00	6.25	6.50	6.75	12.00
$1\frac{1}{16}$	5.31	5.58	5.84	6.11	6.38	6.64	6.91	7.17	12.75
$1\frac{1}{8}$	5.63	5.91	6.19	6.47	6.75	7.03	7.31	7.59	13.50
$1\frac{3}{16}$	5.94	6.23	6.53	6.83	7.13	7.42	7.72	8.02	14.25
$1\frac{1}{4}$	6.25	6.56	6.88	7.19	7.50	7.81	8.13	8.44	15.00
$1\frac{5}{16}$	6.56	6.89	7.22	7.55	7.88	8.20	8.53	8.86	15.75
$1\frac{3}{8}$	6.88	7.22	7.56	7.91	8.25	8.59	8.94	9.28	16.50
$1\frac{7}{16}$	7.19	7.55	7.91	8.27	8.63	8.98	9.34	9.70	17.25
$1\frac{1}{2}$	7.50	7.88	8.25	8.63	9.00	9.38	9.75	10.13	18.00
$1\frac{9}{16}$	7.81	8.20	8.59	8.98	9.38	9.77	10.16	10.55	18.75
$1\frac{5}{8}$	8.13	8.53	8.94	9.34	9.75	10.16	10.56	10.97	19.50
$1\frac{11}{16}$	8.44	8.86	9.28	9.70	10.13	10.55	10.97	11.39	20.25
$1\frac{3}{4}$	8.75	9.19	9.63	10.06	10.50	10.94	11.38	11.81	21.00
$1\frac{13}{16}$	9.06	9.52	9.97	10.42	10.88	11.33	11.78	12.23	21.75
$1\frac{7}{8}$	9.38	9.84	10.31	10.78	11.25	11.72	12.19	12.66	22.50
$1\frac{15}{16}$	9.69	10.17	10.66	11.14	11.63	12.11	12.59	13.08	23.25
2	10.00	10.50	11.00	11.50	12.00	12.50	13.00	13.50	24.00

AREAS OF FLAT ROLLED STEEL—Continued

Thickness in Inches	7"	7¼"	7½"	7¾"	8"	8¼"	8½"	8¾"	12"
$\frac{1}{16}$	.438	.453	.469	.484	.500	.516	.531	.547	.750
$\frac{1}{8}$	.875	.906	.938	.969	1.00	1.03	1.06	1.09	1.50
$\frac{3}{16}$	1.31	1.36	1.41	1.45	1.50	1.55	1.59	1.64	2.25
$\frac{1}{4}$	1.75	1.81	1.88	1.94	2.00	2.06	2.13	2.19	3.00
$\frac{5}{16}$	2.19	2.27	2.34	2.42	2.50	2.58	2.66	2.73	3.75
$\frac{3}{8}$	2.63	2.72	2.81	2.91	3.00	3.09	3.19	3.28	4.50
$\frac{7}{16}$	3.06	3.17	3.28	3.39	3.50	3.61	3.72	3.83	5.25
$\frac{1}{2}$	3.50	3.63	3.75	3.88	4.00	4.13	4.25	4.38	6.00
$\frac{9}{16}$	3.94	4.08	4.22	4.36	4.50	4.64	4.78	4.92	6.75
$\frac{5}{8}$	4.38	4.53	4.69	4.84	5.00	5.16	5.31	5.47	7.50
$\frac{11}{16}$	4.81	4.98	5.16	5.33	5.50	5.67	5.84	6.02	8.25
$\frac{3}{4}$	5.25	5.44	5.63	5.81	6.00	6.19	6.38	6.56	9.00
$\frac{13}{16}$	5.69	5.89	6.09	6.30	6.50	6.70	6.91	7.11	9.75
$\frac{7}{8}$	6.13	6.34	6.56	6.78	7.00	7.22	7.44	7.66	10.50
$\frac{15}{16}$	6.56	6.80	7.03	7.27	7.50	7.73	7.97	8.20	11.25
1	7.00	7.25	7.50	7.75	8.00	8.25	8.50	8.75	12.00
$1\frac{1}{16}$	7.44	7.70	7.97	8.23	8.50	8.77	9.03	9.30	12.75
$1\frac{1}{8}$	7.88	8.16	8.44	8.72	9.00	9.28	9.56	9.84	13.50
$1\frac{3}{16}$	8.31	8.61	8.91	9.20	9.50	9.80	10.09	10.39	14.25
$1\frac{1}{4}$	8.75	9.06	9.38	9.69	10.00	10.31	10.63	10.94	15.00
$1\frac{5}{16}$	9.19	9.52	9.84	10.17	10.50	10.83	11.16	11.48	15.75
$1\frac{3}{8}$	9.63	9.97	10.31	10.66	11.00	11.34	11.69	12.03	16.50
$1\frac{7}{16}$	10.06	10.42	10.78	11.14	11.50	11.86	12.22	12.58	17.25
$1\frac{1}{2}$	10.50	10.88	11.25	11.63	12.00	12.38	12.75	13.13	18.00
$1\frac{9}{16}$	10.94	11.33	11.72	12.11	12.50	12.89	13.28	13.67	18.75
$1\frac{5}{8}$	11.38	11.78	12.19	12.59	13.00	13.41	13.81	14.22	19.50
$1\frac{11}{16}$	11.81	12.23	12.66	13.08	13.50	13.92	14.34	14.77	20.25
$1\frac{3}{4}$	12.25	12.69	13.13	13.56	14.00	14.44	14.88	15.31	21.00
$1\frac{13}{16}$	12.69	13.14	13.59	14.05	14.50	14.95	15.41	15.86	21.75
$1\frac{7}{8}$	13.13	13.59	14.06	14.53	15.00	15.47	15.94	16.41	22.50
$1\frac{15}{16}$	13.56	14.05	14.53	15.02	15.50	15.98	16.47	16.95	23.25
2	14.00	14.50	15.00	15.50	16.00	16.50	17.00	17.50	24.00

AREAS OF FLAT ROLLED STEEL—Continued

Thickness in Inches	9"	9¼"	9½"	9¾"	10"	10¼"	10½"	10¾"	12"
$\frac{1}{16}$	.563	.578	.594	.609	.625	.641	.656	.672	.750
$\frac{1}{8}$	1.13	1.16	1.19	1.22	1.25	1.28	1.31	1.34	1.50
$\frac{3}{16}$	1.69	1.73	1.78	1.83	1.88	1.92	1.97	2.02	2.25
$\frac{1}{4}$	2.25	2.31	2.38	2.44	2.50	2.56	2.63	2.69	3.00
$\frac{5}{16}$	2.81	2.89	2.97	3.05	3.13	3.20	3.28	3.36	3.75
$\frac{3}{8}$	3.38	3.47	3.56	3.66	3.75	3.84	3.94	4.03	4.50
$\frac{7}{16}$	3.94	4.05	4.16	4.27	4.38	4.48	4.59	4.70	5.25
$\frac{1}{2}$	4.50	4.63	4.75	4.88	5.00	5.13	5.25	5.38	6.00
$\frac{9}{16}$	5.06	5.20	5.34	5.48	5.63	5.77	5.91	6.05	6.75
$\frac{5}{8}$	5.63	5.78	5.94	6.09	6.25	6.41	6.56	6.72	7.50
$\frac{11}{16}$	6.19	6.36	6.53	6.70	6.88	7.05	7.22	7.39	8.25
$\frac{3}{4}$	6.75	6.94	7.13	7.31	7.50	7.69	7.88	8.06	9.00
$\frac{13}{16}$	7.31	7.52	7.72	7.92	8.13	8.33	8.53	8.73	9.75
$\frac{7}{8}$	7.88	8.09	8.31	8.53	8.75	8.97	9.19	9.41	10.50
$\frac{15}{16}$	8.44	8.67	8.91	9.14	9.38	9.61	9.84	10.08	11.25
1	9.00	9.25	9.50	9.75	10.00	10.25	10.50	10.75	12.00
$1\frac{1}{16}$	9.56	9.83	10.09	10.36	10.63	10.89	11.16	11.42	12.75
$1\frac{1}{8}$	10.13	10.41	10.69	10.97	11.25	11.53	11.81	12.09	13.50
$1\frac{3}{16}$	10.69	10.98	11.28	11.58	11.88	12.17	12.47	12.77	14.25
$1\frac{1}{4}$	11.25	11.56	11.88	12.19	12.50	12.81	13.13	13.44	15.00
$1\frac{5}{16}$	11.81	12.14	12.47	12.80	13.13	13.45	13.78	14.11	15.75
$1\frac{3}{8}$	12.38	12.72	13.06	13.41	13.75	14.09	14.44	14.78	16.50
$1\frac{7}{16}$	12.94	13.30	13.66	14.02	14.38	14.73	15.09	15.45	17.25
$1\frac{1}{2}$	13.50	13.88	14.25	14.63	15.00	15.38	15.75	16.13	18.00
$1\frac{9}{16}$	14.06	14.45	14.84	15.23	15.63	16.02	16.41	16.80	18.75
$1\frac{5}{8}$	14.63	15.03	15.44	15.84	16.25	16.66	17.06	17.47	19.50
$1\frac{11}{16}$	15.19	15.61	16.03	16.45	16.88	17.30	17.72	18.14	20.25
$1\frac{3}{4}$	15.75	16.19	16.63	17.06	17.50	17.94	18.38	18.81	21.00
$1\frac{13}{16}$	16.31	16.77	17.22	17.67	18.13	18.58	19.03	19.48	21.75
$1\frac{7}{8}$	16.88	17.34	17.81	18.28	18.75	19.22	19.69	20.16	22.50
$1\frac{15}{16}$	17.44	17.92	18.41	18.89	19.38	19.86	20.34	20.83	23.25
2	18.00	18.50	19.00	19.50	20.00	20.50	21.00	21.50	24.00

AREAS OF FLAT ROLLED STEEL—Continued

Thickness in Inches	11"	11¼"	11½"	11¾"	12"	12¼"	12½"	12¾"
$\frac{1}{16}$	.688	.703	.719	.734	.750	.766	.781	.797
$\frac{1}{8}$	1.38	1.41	1.44	1.47	1.50	1.53	1.56	1.59
$\frac{3}{16}$	2.06	2.11	2.16	2.20	2.25	2.30	2.34	2.39
$\frac{1}{4}$	2.75	2.81	2.88	2.94	3.00	3.06	3.13	3.19
$\frac{5}{16}$	3.44	3.52	3.59	3.67	3.75	3.83	3.91	3.98
$\frac{3}{8}$	4.13	4.22	4.31	4.41	4.50	4.59	4.69	4.78
$\frac{7}{16}$	4.81	4.92	5.03	5.14	5.25	5.36	5.47	5.58
$\frac{1}{2}$	5.50	5.63	5.75	5.88	6.00	6.13	6.25	6.38
$\frac{9}{16}$	6.19	6.33	6.47	6.61	6.75	6.89	7.03	7.17
$\frac{5}{8}$	6.88	7.03	7.19	7.34	7.50	7.66	7.81	7.97
$\frac{11}{16}$	7.56	7.73	7.91	8.08	8.25	8.42	8.59	8.77
$\frac{3}{4}$	8.25	8.44	8.63	8.81	9.00	9.19	9.38	9.56
$\frac{13}{16}$	8.94	9.14	9.34	9.55	9.75	9.95	10.16	10.36
$\frac{7}{8}$	9.63	9.84	10.06	10.28	10.50	10.72	10.94	11.16
$\frac{15}{16}$	10.31	10.55	10.78	11.02	11.25	11.48	11.72	11.95
1	11.00	11.25	11.50	11.75	12.00	12.25	12.50	12.75
$1\frac{1}{16}$	11.69	11.95	12.22	12.48	12.75	13.02	13.28	13.55
$1\frac{1}{8}$	12.38	12.66	12.94	13.22	13.50	13.78	14.06	14.34
$1\frac{3}{16}$	13.06	13.36	13.66	13.95	14.25	14.55	14.84	15.14
$1\frac{1}{4}$	13.75	14.06	14.38	14.69	15.00	15.31	15.63	15.94
$1\frac{5}{16}$	14.44	14.77	15.09	15.42	15.75	16.08	16.41	16.73
$1\frac{3}{8}$	15.13	15.47	15.81	16.16	16.50	16.84	17.19	17.53
$1\frac{7}{16}$	15.81	16.17	16.53	16.89	17.25	17.61	17.97	18.33
$1\frac{1}{2}$	16.50	16.88	17.25	17.63	18.00	18.38	18.75	19.13
$1\frac{9}{16}$	17.19	17.58	17.97	18.36	18.75	19.14	19.53	19.92
$1\frac{5}{8}$	17.88	18.28	18.69	19.09	19.50	19.91	20.31	20.72
$1\frac{11}{16}$	18.56	18.98	19.41	19.83	20.25	20.67	21.09	21.52
$1\frac{3}{4}$	19.25	19.69	20.13	20.56	21.00	21.44	21.88	22.31
$1\frac{13}{16}$	19.94	20.39	20.84	21.30	21.75	22.20	22.66	23.11
$1\frac{7}{8}$	20.63	21.09	21.56	22.03	22.50	22.97	23.44	23.91
$1\frac{15}{16}$	21.31	21.80	22.28	22.77	23.25	23.73	24.22	24.70
2	22.00	22.50	23.00	23.50	24.00	24.50	25.00	25.50

The areas for 12 in. width are repeated on each page to facilitate making the additions necessary to obtain the areas of plates wider than 12 in. Thus, to find the area of $15\frac{1}{4} \times \frac{1}{2}$ in., add the areas to be found in the same line for $8\frac{1}{4} \times \frac{1}{2}$ and $12 \times \frac{1}{2} = 2.84 + 10.50 = 13.34$ square inches.

WEIGHTS OF FLAT ROLLED STEEL

PER LINEAL FOOT

1 cubic foot weighing 489.6 lbs.

Thickness in Inches	1"	1¼"	1½"	1¾"	2"	2¼"	2½"	2¾"	12"
$\frac{3}{16}$	.638	.797	.957	1.11	1.28	1.44	1.59	1.75	7.65
$\frac{1}{4}$	.850	1.06	1.28	1.49	1.70	1.91	2.12	2.34	10.20
$\frac{5}{16}$	1.06	1.33	1.59	1.86	2.12	2.39	2.65	2.92	12.75
$\frac{3}{8}$	1.28	1.59	1.92	2.23	2.55	2.87	3.19	3.51	15.30
$\frac{7}{16}$	1.49	1.86	2.23	2.60	2.98	3.35	3.72	4.09	17.85
$\frac{1}{2}$	1.70	2.12	2.55	2.98	3.40	3.83	4.25	4.67	20.40
$\frac{9}{16}$	1.92	2.39	2.87	3.35	3.83	4.30	4.78	5.26	22.95
$\frac{5}{8}$	2.12	2.65	3.19	3.72	4.25	4.78	5.31	5.84	25.50
$\frac{11}{16}$	2.34	2.92	3.51	4.09	4.67	5.26	5.84	6.43	28.05
$\frac{3}{4}$	2.55	3.19	3.83	4.47	5.10	5.75	6.38	7.02	30.60
$\frac{13}{16}$	2.76	3.45	4.14	4.84	5.53	6.21	6.90	7.60	33.15
$\frac{7}{8}$	2.98	3.72	4.47	5.20	5.95	6.69	7.44	8.18	35.70
$\frac{15}{16}$	3.19	3.99	4.78	5.58	6.38	7.18	7.97	8.77	38.25
1	3.40	4.25	5.10	5.95	6.80	7.65	8.50	9.35	40.80
$1\frac{1}{16}$	3.61	4.52	5.42	6.32	7.22	8.13	9.03	9.93	43.35
$1\frac{1}{8}$	3.83	4.78	5.74	6.70	7.65	8.61	9.57	10.52	45.90
$1\frac{3}{16}$	4.04	5.05	6.06	7.07	8.08	9.09	10.10	11.11	48.45
$1\frac{1}{4}$	4.25	5.31	6.38	7.44	8.50	9.57	10.63	11.69	51.00
$1\frac{5}{16}$	4.46	5.58	6.69	7.81	8.93	10.04	11.16	12.27	53.55
$1\frac{3}{8}$	4.67	5.84	7.02	8.18	9.35	10.52	11.69	12.85	56.10
$1\frac{7}{16}$	4.89	6.11	7.34	8.56	9.78	11.00	12.22	13.44	58.65
$1\frac{1}{2}$	5.10	6.38	7.65	8.93	10.20	11.48	12.75	14.03	61.20
$1\frac{9}{16}$	5.32	6.64	7.97	9.30	10.63	11.95	13.28	14.61	63.75
$1\frac{5}{8}$	5.52	6.90	8.29	9.67	11.05	12.43	13.81	15.19	66.30
$1\frac{11}{16}$	5.74	7.17	8.61	10.04	11.47	12.91	14.34	15.78	68.85
$1\frac{3}{4}$	5.95	7.44	8.93	10.42	11.90	13.40	14.88	16.37	71.40
$1\frac{13}{16}$	6.16	7.70	9.24	10.79	12.33	13.86	15.40	16.95	73.95
$1\frac{7}{8}$	6.38	7.97	9.57	11.15	12.75	14.34	15.94	17.53	76.50
$1\frac{15}{16}$	6.59	8.24	9.88	11.53	13.18	14.83	16.47	18.12	79.05
2	6.80	8.50	10.20	11.90	13.60	15.30	17.00	18.70	81.60

WEIGHTS OF FLAT ROLLED STEEL—Continued

PER LINEAL FOOT

Thickness in Inches	3"	3¼"	3½"	3¾"	4"	4¼"	4½"	4¾"	12"
$\frac{3}{16}$	1.91	2.07	2.23	2.39	2.55	2.71	2.87	3.03	7.65
$\frac{1}{4}$	2.55	2.76	2.98	3.19	3.40	3.61	3.83	4.04	10.20
$\frac{5}{16}$	3.19	3.45	3.72	3.99	4.25	4.52	4.78	5.05	12.75
$\frac{3}{8}$	3.83	4.15	4.47	4.78	5.10	5.42	5.74	6.06	15.30
$\frac{7}{16}$	4.46	4.83	5.20	5.58	5.95	6.32	6.70	7.07	17.85
$\frac{1}{2}$	5.10	5.53	5.95	6.38	6.80	7.22	7.65	8.08	20.40
$\frac{9}{16}$	5.74	6.22	6.70	7.17	7.65	8.13	8.61	9.09	22.95
$\frac{5}{8}$	6.38	6.91	7.44	7.97	8.50	9.03	9.57	10.10	25.50
$\frac{11}{16}$	7.02	7.60	8.18	8.76	9.35	9.93	10.52	11.11	28.05
$\frac{3}{4}$	7.65	8.29	8.93	9.57	10.20	10.84	11.48	12.12	30.60
$\frac{13}{16}$	8.29	8.98	9.67	10.36	11.05	11.74	12.43	13.12	33.15
$\frac{7}{8}$	8.93	9.67	10.41	11.16	11.90	12.65	13.39	14.13	35.70
$\frac{15}{16}$	9.57	10.36	11.16	11.95	12.75	13.55	14.34	15.14	38.25
1	10.20	11.05	11.90	12.75	13.60	14.45	15.30	16.15	40.80
$1\frac{1}{16}$	10.84	11.74	12.65	13.55	14.45	15.35	16.26	17.16	43.35
$1\frac{1}{8}$	11.48	12.43	13.39	14.34	15.30	16.26	17.22	18.17	45.90
$1\frac{3}{16}$	12.12	13.12	14.13	15.14	16.15	17.16	18.17	19.18	48.45
$1\frac{1}{4}$	12.75	13.81	14.87	15.94	17.00	18.06	19.13	20.19	51.00
$1\frac{5}{16}$	13.39	14.50	15.62	16.74	17.85	18.96	20.08	21.20	53.55
$1\frac{3}{8}$	14.03	15.20	16.36	17.53	18.70	19.87	21.04	22.21	56.10
$1\frac{7}{16}$	14.66	15.88	17.10	18.33	19.55	20.77	21.99	23.22	58.65
$1\frac{1}{2}$	15.30	16.58	17.85	19.13	20.40	21.68	22.95	24.23	61.20
$1\frac{9}{16}$	15.94	17.27	18.60	19.92	21.25	22.58	23.91	25.24	63.75
$1\frac{5}{8}$	16.58	17.96	19.34	20.72	22.10	23.48	24.87	26.25	66.30
$1\frac{11}{16}$	17.22	18.65	20.08	21.51	22.95	24.38	25.82	27.26	68.85
$1\frac{3}{4}$	17.85	19.34	20.83	22.32	23.80	25.29	26.78	28.27	71.40
$1\frac{13}{16}$	18.49	20.03	21.57	23.11	24.65	26.19	27.73	29.27	73.95
$1\frac{7}{8}$	19.13	20.72	22.31	23.91	25.50	27.10	28.69	30.28	76.50
$1\frac{15}{16}$	19.77	21.41	23.06	24.70	26.35	28.00	29.64	31.29	79.05
2	20.40	22.10	23.80	25.50	27.20	28.90	30.60	32.30	81.60

WEIGHTS OF FLAT ROLLED STEEL—Continued

PER LINEAL FOOT

Thickness in Inches	5"	5¼"	5½"	5¾"	6"	6¼"	6½"	6¾"	12"
$\frac{3}{16}$	3.19	3.35	3.51	3.67	3.83	3.99	4.14	4.30	7.65
$\frac{1}{4}$	4.25	4.46	4.67	4.89	5.10	5.31	5.53	5.74	10.20
$\frac{5}{16}$	5.31	5.58	5.84	6.11	6.38	6.64	6.90	7.17	12.75
$\frac{3}{8}$	6.38	6.69	7.02	7.34	7.65	7.97	8.29	8.61	15.30
$\frac{7}{16}$	7.44	7.81	8.18	8.56	8.93	9.29	9.67	10.04	17.85
$\frac{1}{2}$	8.50	8.93	9.35	9.77	10.20	10.63	11.05	11.48	20.40
$\frac{9}{16}$	9.57	10.04	10.52	11.00	11.48	11.95	12.43	12.91	22.95
$\frac{5}{8}$	10.63	11.16	11.69	12.22	12.75	13.28	13.81	14.34	25.50
$\frac{11}{16}$	11.69	12.27	12.85	13.44	14.03	14.61	15.20	15.78	28.05
$\frac{3}{4}$	12.75	13.39	14.03	14.67	15.30	15.94	16.58	17.22	30.60
$\frac{13}{16}$	13.81	14.50	15.19	15.88	16.58	17.27	17.95	18.65	33.15
$\frac{7}{8}$	14.87	15.62	16.36	17.10	17.85	18.60	19.34	20.08	35.70
$\frac{15}{16}$	15.94	16.74	17.53	18.33	19.13	19.92	20.72	21.51	38.25
1	17.00	17.85	18.70	19.55	20.40	21.25	22.10	22.95	40.80
$1\frac{1}{16}$	18.06	18.96	19.87	20.77	21.68	22.58	23.48	24.39	43.35
$1\frac{1}{8}$	19.13	20.08	21.04	21.99	22.95	23.91	24.87	25.82	45.90
$1\frac{3}{16}$	20.19	21.20	22.21	23.22	24.23	25.23	26.24	27.25	48.45
$1\frac{1}{4}$	21.25	22.32	23.38	24.44	25.50	26.56	27.62	28.69	51.00
$1\frac{5}{16}$	22.32	23.43	24.54	25.66	26.78	27.90	29.01	30.12	53.55
$1\frac{3}{8}$	23.38	24.54	25.71	26.88	28.05	29.22	30.39	31.56	56.10
$1\frac{7}{16}$	24.44	25.66	26.88	28.10	29.33	30.55	31.77	32.99	58.65
$1\frac{1}{2}$	25.50	26.78	28.05	29.33	30.60	31.88	33.15	34.43	61.20
$1\frac{9}{16}$	26.57	27.89	29.22	30.55	31.88	33.20	34.53	35.86	63.75
$1\frac{5}{8}$	27.63	29.01	30.39	31.77	33.15	34.53	35.91	37.29	66.30
$1\frac{11}{16}$	28.69	30.12	31.55	32.99	34.43	35.86	37.30	38.73	68.85
$1\frac{3}{4}$	29.75	31.24	32.73	34.22	35.70	37.19	38.68	40.17	71.40
$1\frac{13}{16}$	30.81	32.35	33.89	35.43	36.98	38.52	40.05	41.60	73.95
$1\frac{7}{8}$	31.87	33.47	35.06	36.65	38.25	39.85	41.44	43.03	76.50
$1\frac{15}{16}$	32.94	34.59	36.23	37.88	39.53	41.17	42.82	44.46	79.05
2	34.00	35.70	37.40	39.10	40.80	42.50	44.20	45.90	81.60

WEIGHTS OF FLAT ROLLED STEEL—Continued

PER LINEAL FOOT

Thickness in Inches	7"	7¼"	7½"	7¾"	8"	8¼"	8½"	8¾"	12"
$\frac{3}{16}$	4.46	4.62	4.78	4.94	5.10	5.26	5.42	5.58	7.65
$\frac{1}{4}$	5.95	6.16	6.36	6.58	6.80	7.01	7.22	7.43	10.20
$\frac{5}{16}$	7.44	7.70	7.97	8.23	8.50	8.76	9.03	9.29	12.75
$\frac{3}{8}$	8.93	9.25	9.57	9.88	10.20	10.52	10.84	11.16	15.30
$\frac{7}{16}$	10.41	10.78	11.16	11.53	11.90	12.27	12.64	13.02	17.85
$\frac{1}{2}$	11.90	12.32	12.75	13.18	13.60	14.03	14.44	14.87	20.40
$\frac{9}{16}$	13.39	13.86	14.34	14.82	15.30	15.78	16.26	16.74	22.95
$\frac{5}{8}$	14.87	15.40	15.94	16.47	17.00	17.53	18.06	18.59	25.50
$\frac{11}{16}$	16.36	16.94	17.53	18.12	18.70	19.28	19.86	20.45	28.05
$\frac{3}{4}$	17.85	18.49	19.13	19.77	20.40	21.04	21.68	22.32	30.60
$\frac{13}{16}$	19.34	20.03	20.72	21.41	22.10	22.79	23.48	24.17	33.15
$\frac{7}{8}$	20.83	21.57	22.32	23.05	23.80	24.55	25.30	26.04	35.70
$\frac{15}{16}$	22.32	23.11	23.91	24.70	25.50	26.30	27.10	27.89	38.25
1	23.80	24.65	25.50	26.35	27.20	28.05	28.90	29.75	40.80
$1\frac{1}{16}$	25.29	26.19	27.10	28.00	28.90	29.80	30.70	31.61	43.35
$1\frac{1}{8}$	26.78	27.73	28.68	29.64	30.60	31.56	32.52	33.47	45.90
$1\frac{3}{16}$	28.26	29.27	30.28	31.29	32.30	33.31	34.32	35.33	48.45
$1\frac{1}{4}$	29.75	30.81	31.88	32.94	34.00	35.06	36.12	37.20	51.00
$1\frac{5}{16}$	31.23	32.35	33.48	34.59	35.70	36.81	37.93	39.05	53.55
$1\frac{3}{8}$	32.72	33.89	35.06	36.23	37.40	38.57	39.74	40.91	56.10
$1\frac{7}{16}$	34.21	35.44	36.66	37.88	39.10	40.32	41.54	42.77	58.65
$1\frac{1}{2}$	35.70	36.98	38.26	39.53	40.80	42.08	43.35	44.63	61.20
$1\frac{9}{16}$	37.19	38.51	39.84	41.17	42.50	43.83	45.16	46.49	63.75
$1\frac{5}{8}$	38.67	40.05	41.44	42.82	44.20	45.58	46.96	48.34	66.30
$1\frac{11}{16}$	40.16	41.59	43.03	44.47	45.90	47.33	48.76	50.20	68.85
$1\frac{3}{4}$	41.65	43.14	44.63	46.12	47.60	49.09	50.58	52.07	71.40
$1\frac{13}{16}$	43.14	44.68	46.22	47.76	49.30	50.84	52.38	53.92	73.95
$1\frac{7}{8}$	44.63	46.22	47.82	49.40	51.00	52.60	54.20	55.79	76.50
$1\frac{15}{16}$	46.12	47.76	49.41	51.05	52.70	54.35	56.00	57.64	79.05
2	47.60	49.30	51.00	52.70	54.40	56.10	57.80	59.50	81.60

WEIGHTS OF FLAT ROLLED STEEL—Continued

PER LINEAL FOOT

Thickness in Inches	9"	9¼"	9½"	9¾"	10"	10¼"	10½"	10¾"	12"
$\frac{3}{16}$	5.74	5.90	6.06	6.22	6.38	6.54	6.70	6.86	7.65
$\frac{1}{4}$	7.65	7.86	8.08	8.29	8.50	8.71	8.92	9.14	10.20
$\frac{5}{16}$	9.56	9.83	10.10	10.36	10.62	10.89	11.16	11.42	12.75
$\frac{3}{8}$	11.48	11.80	12.12	12.44	12.75	13.07	13.39	13.71	15.30
$\frac{7}{16}$	13.40	13.76	14.14	14.51	14.88	15.25	15.62	15.99	17.85
$\frac{1}{2}$	15.30	15.73	16.16	16.58	17.00	17.42	17.85	18.28	20.40
$\frac{9}{16}$	17.22	17.69	18.18	18.65	19.14	19.61	20.08	20.56	22.95
$\frac{5}{8}$	19.13	19.65	20.19	20.72	21.25	21.78	22.32	22.85	25.50
$\frac{11}{16}$	21.04	21.62	22.21	22.79	23.38	23.96	24.54	25.13	28.05
$\frac{3}{4}$	22.96	23.59	24.23	24.86	25.50	26.14	26.78	27.42	30.60
$\frac{13}{16}$	24.86	25.55	26.24	26.94	27.62	28.32	29.00	29.69	33.15
$\frac{7}{8}$	26.78	27.52	28.26	29.01	29.75	30.50	31.24	31.98	35.70
$\frac{15}{16}$	28.69	29.49	30.28	31.08	31.88	32.67	33.48	34.28	38.25
1	30.60	31.45	32.30	33.15	34.00	34.85	35.70	36.55	40.80
$1\frac{1}{16}$	32.52	33.41	34.32	35.22	36.12	37.03	37.92	38.83	43.35
$1\frac{1}{8}$	34.43	35.38	36.34	37.29	38.25	39.21	40.17	41.12	45.90
$1\frac{3}{16}$	36.34	37.35	38.36	39.37	40.38	41.39	42.40	43.40	48.45
$1\frac{1}{4}$	38.26	39.31	40.37	41.44	42.50	43.56	44.63	45.69	51.00
$1\frac{5}{16}$	40.16	41.28	42.40	43.52	44.64	45.75	46.86	47.97	53.55
$1\frac{3}{8}$	42.08	43.25	44.41	45.58	46.75	47.92	49.08	50.25	56.10
$1\frac{7}{16}$	44.00	45.22	46.44	47.66	48.88	50.10	51.32	52.54	58.65
$1\frac{1}{2}$	45.90	47.18	48.45	49.73	51.00	52.28	53.55	54.83	61.20
$1\frac{9}{16}$	47.82	49.14	50.48	51.80	53.14	54.46	55.78	57.11	63.75
$1\frac{5}{8}$	49.73	51.10	52.49	53.87	55.25	56.63	58.02	59.40	66.30
$1\frac{11}{16}$	51.64	53.07	54.51	55.94	57.38	58.81	60.24	61.68	68.85
$1\frac{3}{4}$	53.56	55.04	56.53	58.01	59.50	60.99	62.48	63.97	71.40
$1\frac{13}{16}$	55.46	57.00	58.54	60.09	61.62	63.17	64.70	66.24	73.95
$1\frac{7}{8}$	57.38	58.97	60.56	62.16	63.75	65.35	66.94	68.53	76.50
$1\frac{15}{16}$	59.29	60.94	62.58	64.23	65.88	67.52	69.18	70.83	79.05
2	61.20	62.90	64.60	66.30	68.00	69.70	71.40	73.10	81.60

WEIGHTS OF FLAT ROLLED STEEL—Continued

PER LINEAL FOOT

Thickness in Inches	11"	11¼"	11½"	11¾"	12"	12¼"	12½"	12¾"
$\frac{3}{16}$	7.02	7.17	7.32	7.49	7.65	7.82	7.98	8.13
$\frac{1}{4}$	9.34	9.57	9.78	10.00	10.20	10.42	10.63	10.84
$\frac{5}{16}$	11.68	11.95	12.22	12.49	12.75	13.01	13.28	13.55
$\frac{3}{8}$	14.03	14.35	14.68	14.99	15.30	15.62	15.94	16.26
$\frac{7}{16}$	16.36	16.74	17.12	17.49	17.85	18.23	18.60	18.97
$\frac{1}{2}$	18.70	19.13	19.55	19.97	20.40	20.82	21.25	21.67
$\frac{9}{16}$	21.03	21.51	22.00	22.48	22.95	23.43	23.90	24.39
$\frac{5}{8}$	23.38	23.91	24.44	24.97	25.50	26.03	26.56	27.09
$\frac{11}{16}$	25.70	26.30	26.88	27.47	28.05	28.64	29.22	29.80
$\frac{3}{4}$	28.05	28.68	29.33	29.97	30.60	31.25	31.88	32.52
$\frac{13}{16}$	30.40	31.08	31.76	32.46	33.15	33.83	34.53	35.22
$\frac{7}{8}$	32.72	33.47	34.21	34.95	35.70	36.44	37.19	37.93
$\frac{15}{16}$	35.06	35.86	36.66	37.46	38.25	39.05	39.84	40.64
1	37.40	38.25	39.10	39.95	40.80	41.65	42.50	43.35
$1\frac{1}{16}$	39.74	40.64	41.54	42.45	43.35	44.25	45.16	46.06
$1\frac{1}{8}$	42.08	43.04	44.00	44.94	45.90	46.86	47.82	48.77
$1\frac{3}{16}$	44.42	45.42	46.44	47.45	48.45	49.46	50.46	51.48
$1\frac{1}{4}$	46.76	47.82	48.88	49.94	51.00	52.06	53.12	54.19
$1\frac{5}{16}$	49.08	50.20	51.32	52.44	53.55	54.67	55.78	56.90
$1\frac{3}{8}$	51.42	52.59	53.76	54.93	56.10	57.27	58.44	59.60
$1\frac{7}{8}$	53.76	54.99	56.21	57.43	58.65	59.87	61.10	62.32
$1\frac{1}{2}$	56.10	57.37	58.65	59.93	61.20	62.48	63.75	65.03
$1\frac{9}{16}$	58.42	59.76	61.10	62.43	63.75	65.08	66.40	67.74
$1\frac{5}{8}$	60.78	62.16	63.54	64.92	66.30	67.68	69.06	70.44
$1\frac{11}{16}$	63.10	64.55	65.98	67.42	68.85	70.29	71.72	73.15
$1\frac{3}{4}$	65.45	66.93	68.43	69.92	71.40	72.90	74.38	75.87
$1\frac{13}{16}$	67.80	69.33	70.86	72.41	73.95	75.48	77.03	78.57
$1\frac{7}{8}$	70.12	71.72	73.31	74.90	76.50	78.09	79.69	81.28
$1\frac{15}{16}$	72.46	74.11	75.76	77.41	79.05	80.70	82.34	83.99
2	74.80	76.50	78.20	79.90	81.60	83.30	85.00	86.70

The weights for 12 in. width are repeated on each page to facilitate making the additions necessary to obtain the weights of plates wider than 12 in. Thus, to find the weight of $15\frac{1}{2} \times \frac{3}{8}$ in., add the weights to be found in the same line for $8\frac{1}{2} \times \frac{3}{8}$ and $12 \times \frac{3}{8} = 10.41 + 35.70 = 46.11$ lbs.

WEIGHTS OF FLAT ROLLED STEEL—Continued

PER LINEAL FOOT

Thickness in Inches	13"	14"	15"	16"	17"	18"	19"	20"	21"
$\frac{3}{16}$	8.28	8.92	9.56	10.20	10.84	11.48	12.10	12.76	13.40
$\frac{1}{4}$	11.06	11.90	12.75	13.60	14.44	15.30	16.16	17.00	17.84
$\frac{5}{16}$	13.81	14.88	15.94	17.00	18.06	19.12	20.20	21.24	22.32
$\frac{3}{8}$	16.58	17.86	19.14	20.40	21.68	22.96	24.24	25.50	26.78
$\frac{7}{16}$	19.34	20.82	22.32	23.80	25.28	26.79	28.28	29.75	31.24
$\frac{1}{2}$	22.10	23.80	25.50	27.20	28.89	30.60	32.31	34.00	35.70
$\frac{9}{16}$	24.86	26.78	28.70	30.60	32.52	34.44	36.34	38.27	40.16
$\frac{5}{8}$	27.62	29.74	31.88	34.00	36.12	38.25	40.37	42.50	44.64
$\frac{11}{16}$	30.39	32.72	35.06	37.40	39.72	42.08	44.42	46.74	49.08
$\frac{3}{4}$	33.16	35.71	38.26	40.80	43.36	45.92	48.46	51.00	53.56
$\frac{13}{16}$	35.91	38.67	41.43	44.20	46.96	49.72	52.48	55.25	58.01
$\frac{7}{8}$	38.68	41.65	44.62	47.60	50.60	53.56	56.52	59.50	62.49
$\frac{15}{16}$	41.44	44.63	47.82	51.00	54.20	57.38	60.57	63.76	66.96
1	44.20	47.60	51.00	54.40	57.80	61.20	64.60	68.00	71.40
$1\frac{1}{16}$	46.96	50.57	54.20	57.80	61.40	65.02	68.64	72.25	75.85
$1\frac{1}{8}$	49.72	53.55	57.37	61.20	65.04	68.85	72.68	76.50	80.33
$1\frac{3}{16}$	52.48	56.52	60.56	64.60	68.64	72.68	76.72	80.75	84.79
$1\frac{1}{4}$	55.25	59.50	63.76	68.00	72.26	76.50	80.74	85.00	89.26
$1\frac{5}{16}$	58.02	62.47	66.95	71.40	75.86	80.33	84.80	89.28	93.72
$1\frac{3}{8}$	60.77	65.45	70.12	74.80	79.48	84.15	88.83	93.50	98.17
$1\frac{7}{16}$	63.54	68.42	73.32	78.20	83.08	88.00	92.88	97.75	102.65
$1\frac{1}{2}$	66.30	71.40	76.51	81.60	86.70	91.80	96.90	102.00	107.10
$1\frac{9}{16}$	69.06	74.38	79.69	85.00	90.31	95.63	100.94	106.25	111.56
$1\frac{5}{8}$	71.83	77.35	82.88	88.40	93.93	99.45	104.98	110.50	116.03
$1\frac{11}{16}$	74.59	80.33	86.06	91.80	97.54	103.28	109.01	114.75	120.49
$1\frac{3}{4}$	77.35	83.30	89.25	95.20	101.15	107.10	113.05	119.00	124.95
$1\frac{13}{16}$	80.11	86.28	92.44	98.60	104.76	110.93	117.09	123.25	129.41
$1\frac{7}{8}$	82.88	89.25	95.63	102.00	108.38	114.75	121.13	127.50	133.88
$1\frac{15}{16}$	85.64	92.23	98.81	105.40	111.99	118.58	125.16	131.75	138.34
2	88.40	95.20	102.00	108.80	115.60	122.40	129.20	136.00	142.80

WEIGHTS OF FLAT ROLLED STEEL—Continued

PER LINEAL FOOT

Thickness in Inches	22"	23"	24"	25"	26"	27"	28"	29"	30"
$\frac{3}{16}$	14.04	14.64	15.32	15.96	16.56	17.20	17.84	18.48	19.12
$\frac{1}{4}$	18.69	19.56	20.40	21.26	22.12	22.96	23.80	24.64	25.50
$\frac{5}{16}$	23.36	24.44	25.52	26.56	27.62	28.68	29.76	30.80	31.88
$\frac{3}{8}$	28.06	29.33	30.60	31.88	33.16	34.44	35.72	37.00	38.28
$\frac{7}{16}$	32.72	34.24	35.72	37.20	38.68	40.17	41.65	43.14	44.64
$\frac{1}{2}$	37.40	39.10	40.80	42.50	44.20	45.92	47.60	49.28	51.00
$\frac{9}{16}$	42.04	44.00	45.92	47.80	49.73	51.64	53.56	55.48	57.40
$\frac{5}{8}$	46.76	48.88	51.00	53.12	55.24	57.37	59.49	61.60	63.76
$\frac{11}{16}$	51.40	53.76	56.12	58.44	60.78	63.11	65.44	67.77	70.13
$\frac{3}{4}$	56.10	58.66	61.20	63.76	66.32	68.88	71.42	73.97	76.53
$\frac{13}{16}$	60.79	63.53	66.29	69.06	71.82	74.58	77.34	80.10	82.86
$\frac{7}{8}$	65.44	68.43	71.40	74.38	77.36	80.33	83.30	86.29	89.24
$\frac{15}{16}$	70.13	73.32	76.50	79.68	82.88	86.07	89.26	92.44	95.64
1	74.80	78.20	81.60	85.00	88.40	91.80	95.20	98.60	102.00
$1\frac{1}{16}$	79.48	83.08	86.70	90.32	93.92	97.54	101.14	104.75	108.38
$1\frac{1}{8}$	84.16	88.00	91.80	95.64	99.44	103.26	107.10	110.92	114.74
$1\frac{3}{16}$	88.83	92.88	96.92	100.92	104.96	109.01	113.05	117.09	121.13
$1\frac{1}{4}$	93.52	97.76	102.00	106.24	110.50	114.76	119.00	123.24	127.51
$1\frac{5}{16}$	98.16	102.64	107.12	111.56	116.04	120.50	124.94	129.40	133.89
$1\frac{3}{8}$	102.84	107.52	112.20	116.88	121.54	126.22	130.90	135.58	140.24
$1\frac{7}{16}$	107.52	112.42	117.30	122.20	127.08	131.96	136.84	141.76	146.64
$1\frac{1}{2}$	112.20	117.30	122.40	127.50	132.60	137.72	142.80	147.92	153.02
$1\frac{9}{16}$	116.88	122.19	127.50	132.81	138.13	143.44	148.75	154.06	159.38
$1\frac{5}{8}$	121.55	127.08	132.60	138.13	143.65	149.18	154.70	160.23	165.75
$1\frac{11}{16}$	126.23	131.96	137.70	143.44	149.18	154.91	160.65	166.39	172.13
$1\frac{3}{4}$	130.90	136.85	142.80	148.75	154.70	160.65	166.60	172.55	178.50
$1\frac{13}{16}$	135.58	141.74	147.90	154.06	160.23	166.39	172.55	178.71	184.88
$1\frac{7}{8}$	140.25	146.63	153.00	159.38	165.75	172.13	178.50	184.88	191.25
$1\frac{15}{16}$	144.93	151.51	158.10	164.69	171.28	177.86	184.45	191.04	197.63
2	149.60	156.40	163.20	170.00	176.80	183.60	190.40	197.20	204.00

WEIGHTS OF FLAT ROLLED STEEL—Continued

PER LINEAL FOOT

Thickness in Inches	31"	32"	33"	34"	35"	36"	38"	40"	42"
$\frac{3}{16}$	19.75	20.40	21.04	21.68	22.32	22.96	24.20	25.52	26.80
$\frac{1}{4}$	26.36	27.20	28.04	28.88	29.72	30.59	32.32	34.00	35.68
$\frac{5}{16}$	32.94	34.00	35.04	36.12	37.16	38.24	40.39	42.48	44.64
$\frac{3}{8}$	39.54	40.80	42.08	43.36	44.64	45.92	48.48	51.00	53.56
$\frac{7}{16}$	46.12	47.60	49.08	50.57	52.07	53.58	56.56	59.50	62.48
$\frac{1}{2}$	52.70	54.40	56.10	57.78	59.50	61.20	64.62	68.00	71.40
$\frac{9}{16}$	59.32	61.22	63.12	65.04	66.96	68.88	72.68	76.54	80.32
$\frac{5}{8}$	65.88	68.00	70.13	72.24	74.36	76.50	80.74	85.00	89.28
$\frac{11}{16}$	72.48	74.80	77.12	79.44	81.79	84.15	88.84	93.48	98.16
$\frac{3}{4}$	79.08	81.61	84.16	86.72	89.28	91.84	96.92	102.00	107.12
$1\frac{1}{16}$	85.62	88.39	91.15	93.91	96.68	99.44	104.96	110.50	116.02
$\frac{7}{8}$	92.20	95.20	98.20	101.20	104.16	107.12	113.04	119.00	124.98
$1\frac{1}{8}$	98.82	102.00	105.20	108.40	111.59	114.76	121.14	127.52	133.92
1	105.40	108.80	112.20	115.60	119.00	122.40	129.20	136.00	142.80
$1\frac{1}{8}$	112.00	115.59	119.20	122.80	126.42	130.04	137.28	144.50	151.70
$1\frac{1}{8}$	118.56	122.40	126.24	130.08	133.90	137.70	145.36	153.00	160.66
$1\frac{3}{8}$	125.16	129.21	133.24	137.28	141.32	145.36	153.44	161.50	169.58
$1\frac{1}{4}$	131.76	136.00	140.28	144.52	148.76	153.00	161.48	170.00	178.52
$1\frac{5}{8}$	138.36	142.81	147.24	151.72	156.20	160.66	169.60	178.56	187.44
$1\frac{3}{4}$	144.92	149.60	154.28	158.96	163.62	168.30	177.66	187.00	196.34
$1\frac{7}{8}$	151.52	156.40	161.28	166.16	171.08	176.00	185.75	195.50	205.29
$1\frac{1}{2}$	158.11	163.20	168.32	173.40	178.51	183.60	193.80	204.00	214.20
$1\frac{9}{8}$	164.69	170.00	175.31	180.63	185.94	191.25	201.88	212.50	223.13
$1\frac{5}{8}$	171.28	176.80	182.33	187.85	193.38	198.90	209.95	221.00	232.05
$1\frac{11}{8}$	177.86	183.60	189.34	195.08	200.81	206.55	218.03	229.50	240.98
$1\frac{3}{4}$	184.45	190.40	196.35	202.30	208.25	214.20	226.10	238.00	249.90
$1\frac{13}{8}$	191.04	197.20	203.36	209.53	215.69	221.85	234.18	246.50	258.83
$1\frac{7}{8}$	197.63	204.00	210.38	216.75	223.13	229.50	242.25	255.00	267.75
$1\frac{15}{8}$	204.21	210.80	217.39	223.98	230.56	237.15	250.33	263.50	276.68
2	210.80	217.60	224.40	231.20	238.00	244.80	258.40	272.00	285.60

WEIGHTS OF FLAT ROLLED STEEL—Continued

PER LINEAL FOOT

Thickness in Inches	44"	46"	48"	50"	52"	54"	56"	58"	60"
$\frac{3}{16}$	28.08	29.29	30.64	31.92	33.12	34.40	35.68	36.96	38.24
$\frac{1}{4}$	37.38	39.11	40.80	42.52	44.24	45.92	47.60	49.28	51.00
$\frac{5}{16}$	46.72	48.88	51.04	53.12	55.24	57.36	59.51	61.60	63.76
$\frac{3}{8}$	56.12	58.65	61.20	63.76	66.32	68.88	71.44	74.00	76.56
$\frac{7}{16}$	65.44	68.47	71.44	74.40	77.37	80.34	83.30	86.28	89.28
$\frac{1}{2}$	74.80	78.20	81.60	85.00	88.40	91.84	95.20	98.56	102.00
$\frac{9}{16}$	84.09	88.00	91.84	95.60	99.46	103.28	107.12	110.96	114.80
$\frac{5}{8}$	93.52	97.76	102.00	106.24	110.48	114.74	118.98	123.20	127.52
$\frac{11}{16}$	102.81	107.53	112.24	116.88	121.56	126.22	130.88	135.54	140.26
$\frac{3}{4}$	112.20	117.31	122.40	127.52	132.64	137.76	142.85	147.94	153.06
$1\frac{1}{16}$	121.56	127.06	132.58	138.12	143.64	149.16	154.68	160.20	165.72
$\frac{7}{8}$	130.89	136.86	142.80	148.76	154.72	160.66	166.60	172.58	178.48
$1\frac{1}{8}$	140.27	146.64	153.00	159.36	165.76	172.15	178.52	184.88	191.28
1	149.60	156.40	163.20	170.00	176.80	183.60	190.40	197.20	204.00
$1\frac{1}{8}$	158.96	166.16	173.40	180.64	187.84	195.08	202.28	209.50	216.76
$1\frac{1}{4}$	168.32	175.99	183.60	191.28	198.88	206.52	214.20	221.84	229.48
$1\frac{3}{8}$	177.66	185.76	193.84	201.84	209.92	218.02	226.10	234.18	242.26
$1\frac{1}{2}$	187.04	195.52	204.00	212.48	221.00	229.52	238.00	246.48	255.02
$1\frac{5}{8}$	196.32	205.28	214.24	223.12	232.08	241.00	249.88	258.80	267.78
$1\frac{3}{4}$	205.68	215.04	224.40	233.76	243.08	252.44	261.80	271.16	280.48
$1\frac{7}{8}$	215.04	224.84	234.60	244.40	254.16	263.92	273.68	283.52	293.28
$1\frac{1}{2}$	224.40	234.60	244.80	255.00	265.20	275.44	285.60	295.84	306.04
$1\frac{9}{16}$	233.75	244.38	255.00	265.63	276.25	286.88	297.50	308.13	318.75
$1\frac{5}{8}$	243.10	254.15	265.20	276.25	287.30	298.35	309.40	320.45	331.50
$1\frac{11}{16}$	252.45	263.93	275.40	286.88	298.35	309.83	321.29	332.78	344.25
$1\frac{3}{4}$	261.80	273.70	285.60	297.50	309.40	321.30	333.20	345.10	357.00
$1\frac{13}{16}$	271.15	283.48	295.80	308.13	320.45	332.78	345.10	357.43	369.75
$1\frac{7}{8}$	280.50	293.25	306.00	318.75	331.50	344.25	357.00	369.75	382.50
$1\frac{15}{16}$	289.85	303.03	316.20	329.38	342.55	355.73	368.90	382.08	395.25
2	299.20	312.80	326.40	340.00	353.60	367.20	380.80	394.40	408.00

WEIGHTS AND AREAS OF SQUARE AND ROUND BARS AND CIRCUMFERENCES OF ROUND BARS

One cubic foot of steel weighing 489.6 lbs.

Thickness or Diameter in Inches	Weight of □ Bar One Foot Long	Weight of ○ Bar One Foot Long	Area of □ Bar in Sq. Inches	Area of ○ Bar in Sq. Inches	Circumference of ○ Bar in Inches
0					
$\frac{1}{16}$	.013	.010	.0039	.0031	.1963
$\frac{1}{8}$	.053	.042	.0156	.0123	.3927
$\frac{3}{16}$	.119	.094	.0352	.0276	.5890
$\frac{1}{4}$	.212	.167	.0625	.0491	.7854
$\frac{5}{16}$	.333	.261	.0977	.0767	.9817
$\frac{3}{8}$	.478	.375	.1406	.1104	1.1781
$\frac{7}{16}$	.651	.511	.1914	.1503	1.3744
$\frac{1}{2}$	.850	.667	.2500	.1963	1.5708
$\frac{9}{16}$	1.076	.845	.3164	.2485	1.7671
$\frac{5}{8}$	1.328	1.043	.3906	.3068	1.9635
$\frac{11}{16}$	1.608	1.262	.4727	.3712	2.1598
$\frac{3}{4}$	1.913	1.502	.5625	.4418	2.3562
$\frac{13}{16}$	2.245	1.763	.6602	.5185	2.5525
$\frac{7}{8}$	2.603	2.044	.7656	.6013	2.7489
$\frac{15}{16}$	2.989	2.347	.8789	.6903	2.9452
1	3.400	2.670	1.0000	.7854	3.1416
$1\frac{1}{16}$	3.838	3.014	1.1289	.8866	3.3379
$1\frac{1}{8}$	4.303	3.379	1.2656	.9940	3.5343
$1\frac{3}{16}$	4.795	3.766	1.4102	1.1075	3.7306
$1\frac{1}{4}$	5.312	4.173	1.5625	1.2272	3.9270
$1\frac{5}{16}$	5.857	4.600	1.7227	1.3530	4.1233
$1\frac{3}{8}$	6.428	5.049	1.8906	1.4849	4.3197
$1\frac{7}{16}$	7.026	5.518	2.0664	1.6230	4.5160
$1\frac{1}{2}$	7.650	6.008	2.2500	1.7671	4.7124
$1\frac{9}{16}$	8.301	6.520	2.4414	1.9175	4.9087
$1\frac{5}{8}$	8.978	7.051	2.6406	2.0739	5.1051
$1\frac{11}{16}$	9.682	7.604	2.8477	2.2365	5.3014
$1\frac{3}{4}$	10.41	8.178	3.0625	2.4053	5.4978
$1\frac{13}{16}$	11.17	8.773	3.2852	2.5802	5.6941
$1\frac{7}{8}$	11.95	9.388	3.5156	2.7612	5.8905
$1\frac{15}{16}$	12.76	10.02	3.7539	2.9483	6.0868

SQUARE AND ROUND BARS—Continued

Thickness or Diameter in Inches	Weight of □ Bar One Foot Long	Weight of ○ Bar One Foot Long	Area of □ Bar in Sq. Inches	Area of ○ Bar in Sq. Inches	Circumference of ○ Bar in Inches
2	13.60	10.68	4.0000	3.1416	6.2832
$\frac{1}{16}$	14.46	11.36	4.2539	3.3410	6.4795
$\frac{1}{8}$	15.35	12.06	4.5156	3.5466	6.6759
$\frac{3}{16}$	16.27	12.78	4.7852	3.7583	6.8722
$\frac{1}{4}$	17.22	13.52	5.0625	3.9761	7.0686
$\frac{5}{16}$	18.19	14.28	5.3477	4.2000	7.2649
$\frac{3}{8}$	19.18	15.07	5.6406	4.4301	7.4613
$\frac{7}{16}$	20.20	15.86	5.9414	4.6664	7.6576
$\frac{1}{2}$	21.25	16.69	6.2500	4.9087	7.8540
$\frac{9}{16}$	22.33	17.53	6.5664	5.1572	8.0503
$\frac{5}{8}$	23.43	18.40	6.8906	5.4119	8.2467
$\frac{11}{16}$	24.56	19.29	7.2227	5.6727	8.4430
$\frac{3}{4}$	25.71	20.20	7.5625	5.9396	8.6394
$\frac{13}{16}$	26.90	21.12	7.9102	6.2126	8.8357
$\frac{7}{8}$	28.10	22.07	8.2656	6.4918	9.0321
$\frac{15}{16}$	29.34	23.04	8.6289	6.7771	9.2284
3	30.60	24.03	9.0000	7.0686	9.4248
$\frac{1}{16}$	31.89	25.04	9.3789	7.3662	9.6211
$\frac{1}{8}$	33.20	26.08	9.7656	7.6699	9.8175
$\frac{3}{16}$	34.55	27.13	10.160	7.9798	10.014
$\frac{1}{4}$	35.92	28.20	10.563	8.2958	10.210
$\frac{5}{16}$	37.31	29.30	10.973	8.6179	10.407
$\frac{3}{8}$	38.73	30.42	11.391	8.9462	10.603
$\frac{7}{16}$	40.18	31.56	11.816	9.2806	10.799
$\frac{1}{2}$	41.65	32.71	12.250	9.6211	10.996
$\frac{9}{16}$	43.14	33.90	12.691	9.9678	11.192
$\frac{5}{8}$	44.68	35.09	13.141	10.321	11.388
$\frac{11}{16}$	46.24	36.31	13.598	10.680	11.585
$\frac{3}{4}$	47.82	37.56	14.063	11.045	11.781
$\frac{13}{16}$	49.42	38.81	14.535	11.416	11.977
$\frac{7}{8}$	51.05	40.10	15.016	11.793	12.174
$\frac{15}{16}$	52.71	41.40	15.504	12.177	12.370

SQUARE AND ROUND BARS—Continued

Thickness or Diameter in Inches	Weight of □ Bar One Foot Long	Weight of ○ Bar One Foot Long	Area of □ Bar in Sq. Inches	Area of ○ Bar in Sq. Inches	Circumference of ○ Bar in Inches
4	54.40	42.73	16.000	12.566	12.566
$\frac{1}{16}$	56.11	44.07	16.504	12.962	12.763
$\frac{1}{8}$	57.85	45.44	17.016	13.364	12.959
$\frac{3}{16}$	59.62	46.83	17.535	13.772	13.155
$\frac{1}{4}$	61.41	48.24	18.063	14.186	13.352
$\frac{5}{16}$	63.23	49.66	18.598	14.607	13.548
$\frac{3}{8}$	65.08	51.11	19.141	15.033	13.744
$\frac{7}{16}$	66.95	52.58	19.691	15.466	13.941
$\frac{1}{2}$	68.85	54.07	20.250	15.904	14.137
$\frac{9}{16}$	70.78	55.59	20.816	16.349	14.334
$\frac{5}{8}$	72.73	57.12	21.391	16.800	14.530
$\frac{11}{16}$	74.70	58.67	21.973	17.257	14.726
$\frac{3}{4}$	76.71	60.25	22.563	17.721	14.923
$\frac{13}{16}$	78.74	61.84	23.160	18.190	15.119
$\frac{7}{8}$	80.81	63.46	23.766	18.665	15.315
$\frac{15}{16}$	82.89	65.10	24.379	19.147	15.512
5	85.00	66.76	25.000	19.635	15.708
$\frac{1}{16}$	87.14	68.44	25.629	20.129	15.904
$\frac{1}{8}$	89.30	70.14	26.266	20.629	16.101
$\frac{3}{16}$	91.49	71.86	26.910	21.135	16.297
$\frac{1}{4}$	93.72	73.60	27.563	21.648	16.493
$\frac{5}{16}$	95.96	75.37	28.223	22.166	16.690
$\frac{3}{8}$	98.23	77.15	28.891	22.691	16.886
$\frac{7}{16}$	100.5	78.95	29.566	23.221	17.082
$\frac{1}{2}$	102.8	80.77	30.250	23.758	17.279
$\frac{9}{16}$	105.2	82.62	30.941	24.301	17.475
$\frac{5}{8}$	107.6	84.49	31.641	24.850	17.671
$\frac{11}{16}$	110.0	86.38	32.348	25.406	17.868
$\frac{3}{4}$	112.4	88.29	33.063	25.967	18.064
$\frac{13}{16}$	114.9	90.22	33.785	26.535	18.261
$\frac{7}{8}$	117.4	92.17	34.516	27.109	18.457
$\frac{15}{16}$	119.9	94.14	35.254	27.688	18.653

SQUARE AND ROUND BARS—Continued

Thickness or Diameter in Inches	Weight of □ Bar One Foot Long	Weight of ○ Bar One Foot Long	Area of □ Bar in Sq. Inches	Area of ○ Bar in Sq. Inches	Circumference of ○ Bar in Inches
6	122.4	96.14	36.000	28.274	18.850
$\frac{1}{16}$	125.0	98.14	36.754	28.866	19.046
$\frac{1}{8}$	127.6	100.2	37.516	29.465	19.242
$\frac{3}{16}$	130.2	102.2	38.285	30.069	19.439
$\frac{1}{4}$	132.8	104.3	39.063	30.680	19.635
$\frac{5}{16}$	135.5	106.4	39.848	31.296	19.831
$\frac{3}{8}$	138.2	108.5	40.641	31.919	20.028
$\frac{7}{16}$	140.9	110.7	41.441	32.548	20.224
$\frac{1}{2}$	143.6	112.8	42.250	33.183	20.420
$\frac{9}{16}$	146.5	114.9	43.066	33.824	20.617
$\frac{5}{8}$	149.2	117.2	43.891	34.472	20.813
$\frac{11}{16}$	152.1	119.4	44.723	35.125	21.009
$\frac{3}{4}$	154.9	121.7	45.563	35.785	21.206
$\frac{13}{16}$	157.8	123.9	46.410	36.450	21.402
$\frac{7}{8}$	160.8	126.2	47.266	37.122	21.598
$\frac{15}{16}$	163.6	128.5	48.129	37.800	21.795
7	166.6	130.9	49.000	38.485	21.991
$\frac{1}{16}$	169.6	133.2	49.879	39.175	22.187
$\frac{1}{8}$	172.6	135.6	50.766	39.871	22.384
$\frac{3}{16}$	175.6	137.9	51.660	40.574	22.580
$\frac{1}{4}$	178.7	140.4	52.563	41.282	22.777
$\frac{5}{16}$	181.8	142.8	53.473	41.997	22.973
$\frac{3}{8}$	184.9	145.3	54.391	42.718	23.169
$\frac{7}{16}$	188.1	147.7	55.316	43.445	23.366
$\frac{1}{2}$	191.3	150.2	56.250	44.179	23.562
$\frac{9}{16}$	194.4	152.7	57.191	44.918	23.758
$\frac{5}{8}$	197.7	155.2	58.141	45.664	23.955
$\frac{11}{16}$	200.9	157.8	59.098	46.415	24.151
$\frac{3}{4}$	204.2	160.3	60.063	47.173	24.347
$\frac{13}{16}$	207.6	163.0	61.035	47.937	24.544
$\frac{7}{8}$	210.8	165.6	62.016	48.707	24.740
$\frac{15}{16}$	214.2	168.2	63.004	49.483	24.936

SQUARE AND ROUND BARS—Continued

Thickness or Diameter in Inches	Weight of □ Bar One Foot Long	Weight of ○ Bar One Foot Long	Area of □ Bar in Sq. Inches	Area of ○ Bar in Sq. Inches	Circumference of ○ Bar in Inches
8	217.6	171.0	64.000	50.265	25.133
$\frac{1}{16}$	221.0	173.6	65.004	51.054	25.329
$\frac{1}{8}$	224.5	176.3	66.016	51.849	25.525
$\frac{3}{16}$	228.0	179.0	67.035	52.649	25.722
$\frac{1}{4}$	231.4	181.8	68.063	53.456	25.918
$\frac{5}{16}$	234.9	184.5	69.098	54.269	26.114
$\frac{3}{8}$	238.5	187.3	70.141	55.088	26.311
$\frac{7}{16}$	242.0	190.1	71.191	55.914	26.507
$\frac{1}{2}$	245.6	193.0	72.250	56.745	26.704
$\frac{9}{16}$	249.3	195.7	73.316	57.583	26.900
$\frac{5}{8}$	252.9	198.7	74.391	58.426	27.096
$\frac{11}{16}$	256.6	201.6	75.473	59.276	27.293
$\frac{3}{4}$	260.3	204.4	76.563	60.132	27.489
$\frac{13}{16}$	264.1	207.4	77.660	60.994	27.685
$\frac{7}{8}$	267.9	210.3	78.766	61.862	27.882
$\frac{15}{16}$	271.6	213.3	79.879	62.737	28.078
9	275.4	216.3	81.000	63.617	28.274
$\frac{1}{16}$	279.3	219.3	82.129	64.505	28.471
$\frac{1}{8}$	283.2	222.4	83.266	65.397	28.667
$\frac{3}{16}$	287.0	225.4	84.410	66.296	28.863
$\frac{1}{4}$	290.9	228.5	85.563	67.201	29.060
$\frac{5}{16}$	294.9	231.5	86.723	68.112	29.256
$\frac{3}{8}$	298.9	234.7	87.891	69.029	29.452
$\frac{7}{16}$	302.8	237.9	89.066	69.953	29.649
$\frac{1}{2}$	306.8	241.0	90.250	70.882	29.845
$\frac{9}{16}$	310.9	244.2	91.441	71.818	30.041
$\frac{5}{8}$	315.0	247.4	92.641	72.760	30.238
$\frac{11}{16}$	319.1	250.6	93.848	73.708	30.434
$\frac{3}{4}$	323.2	253.9	95.063	74.662	30.631
$\frac{13}{16}$	327.4	257.1	96.285	75.622	30.827
$\frac{7}{8}$	331.6	260.4	97.516	76.589	31.023
$\frac{15}{16}$	335.8	263.7	98.754	77.561	31.022

SQUARE AND ROUND BARS—Continued

Thickness or Diameter in Inches	Weight of □ Bar One Foot Long	Weight of ○ Bar One Foot Long	Area of □ Bar in Sq. Inches	Area of ○ Bar in Sq. Inches	Circumference of ○ Bar in Inches
10	340.0	267.0	100.00	78.540	31.416
$\frac{1}{16}$	344.3	270.4	101.25	79.525	31.612
$\frac{1}{8}$	348.5	273.8	102.52	80.516	31.809
$\frac{3}{16}$	352.9	277.1	103.79	81.513	32.005
$\frac{1}{4}$	357.2	280.6	105.06	82.516	32.201
$\frac{5}{16}$	361.6	284.0	106.35	83.525	32.398
$\frac{3}{8}$	366.0	287.4	107.64	84.541	32.594
$\frac{7}{16}$	370.4	290.9	108.94	85.562	32.790
$\frac{1}{2}$	374.9	294.4	110.25	86.590	32.987
$\frac{9}{16}$	379.4	297.9	111.57	87.624	33.183
$\frac{5}{8}$	383.8	301.4	112.89	88.664	33.379
$\frac{11}{16}$	388.3	305.0	114.22	89.710	33.576
$\frac{3}{4}$	392.9	308.6	115.56	90.763	33.772
$\frac{13}{16}$	397.5	312.2	116.91	91.821	33.968
$\frac{7}{8}$	402.1	315.8	118.27	92.886	34.165
$\frac{15}{16}$	406.8	319.5	119.63	93.956	34.361
11	411.4	323.1	121.00	95.033	34.558
$\frac{1}{16}$	416.1	326.8	122.38	96.116	34.754
$\frac{1}{8}$	420.9	330.5	123.77	97.205	34.950
$\frac{3}{16}$	425.5	334.3	125.16	98.301	35.147
$\frac{1}{4}$	430.3	337.9	126.56	99.402	35.343
$\frac{5}{16}$	435.1	341.7	127.97	100.51	35.539
$\frac{3}{8}$	439.9	345.5	129.39	101.62	35.736
$\frac{7}{16}$	444.8	349.4	130.82	102.74	35.932
$\frac{1}{2}$	449.6	353.1	132.25	103.87	36.128
$\frac{9}{16}$	454.5	357.0	133.69	105.00	36.325
$\frac{5}{8}$	459.5	360.9	135.14	106.14	36.521
$\frac{11}{16}$	464.4	364.8	136.60	107.28	36.717
$\frac{3}{4}$	469.4	368.6	138.06	108.43	36.914
$\frac{13}{16}$	474.4	372.6	139.54	109.59	37.110
$\frac{7}{8}$	479.5	376.6	141.02	110.75	37.306
$\frac{15}{16}$	484.5	380.6	142.50	111.92	37.503

UNITED STATES STANDARD GAUGE FOR SHEET AND PLATE IRON AND STEEL

Adopted as Standard by American Railway Master Mechanics Association and Association of American Steel Manufacturers.

Number of Gauge	Approximate Thickness in Fractions of an Inch	Approximate Thickness in Decimal Parts of an Inch	Approximate Thickness in Millimeters	Weight per Square Foot in Pounds Avordupois, Iron	Weight per Square Foot in Pounds Avordupois, Steel	Weight per Square Meter in Kilogrammes Steel	Number of Gauge
0000000	1-2	.5	12.70	20.	20.4	99.601	0000000
000000	15-32	.46875	11.91	18.75	19.125	93.376	000000
00000	7-16	.4375	11.11	17.50	17.85	87.151	00000
0000	13-32	.40625	10.32	16.25	16.575	80.926	0000
000	3-8	.375	9.53	15.	15.3	74.701	000
00	11-32	.34375	8.73	13.75	14.025	68.476	00
0	5-16	.3125	7.94	12.50	12.75	62.251	0
1	9-32	.28125	7.14	11.25	11.475	56.026	1
2	17-64	.265625	6.75	10.625	10.8375	52.913	2
3	1-4	.25	6.35	10.	10.2	49.800	3
4	15-64	.234375	5.95	9.375	9.5625	46.688	4
5	7-32	.21875	5.56	8.75	8.925	43.575	5
6	13-64	.203125	5.16	8.125	8.2875	40.463	6
7	3-16	.1875	4.76	7.5	7.65	37.350	7
8	11-64	.171875	4.37	6.875	7.0125	34.238	8
9	5-32	.15625	3.97	6.25	6.375	31.125	9
10	9-64	.140625	3.57	5.625	5.7375	28.013	10
11	1-8	.125	3.18	5.	5.1	24.900	11
12	7-64	.109375	2.78	4.375	4.4625	21.788	12
13	3-32	.09375	2.38	3.75	3.825	18.675	13
14	5-64	.078125	1.98	3.125	3.1875	15.563	14
15	9-128	.0703125	1.79	2.8125	2.86875	14.006	15
16	1-16	.0625	1.59	2.5	2.55	12.450	16
17	9-160	.05625	1.43	2.25	2.295	11.205	17
18	1-20	.05	1.27	2.	2.04	9.960	18
19	7-160	.04375	1.11	1.75	1.785	8.715	19
20	3-80	.0375	0.953	1.50	1.53	7.470	20
21	11-320	.034375	0.873	1.375	1.4025	6.848	21
22	1-32	.03125	0.794	1.25	1.275	6.225	22
23	9-320	.028125	0.714	1.125	1.1475	5.603	23
24	1-40	.025	0.635	1.	1.02	4.980	24
25	7-320	.021875	0.556	.875	.8925	4.358	25
26	3-160	.01875	0.476	.75	.765	3.735	26
27	11-640	.0171875	0.437	.6875	.70125	3.424	27
28	1-64	.015625	0.397	.625	.6375	3.113	28
29	9-640	.0140625	0.357	.5625	.57375	2.801	29
30	1-80	.0125	0.318	.5	.51	2.490	30
31	7-640	.0109375	0.278	.4375	.44625	2.179	31
32	13-1280	.01015625	0.258	.40625	.414375	2.023	32
33	3-320	.009375	0.238	.375	.3825	1.868	33
34	11-1280	.00859375	0.218	.34375	.350625	1.712	34
35	5-640	.0078125	0.198	.3125	.31875	1.556	35
36	9-1280	.00703125	0.179	.28125	.286875	1.401	36
37	17-2560	.006640625	0.169	.265625	.2709375	1.323	37
38	1-160	.00625	0.159	.25	.255	1.245	38

STANDARD GAUGES

THICKNESS IN DECIMALS OF AN INCH

No. of Gauge	Birm- ingham	Browne & Sharpe	United States Standard Plate Iron and Steel	British Imperial	American Steel & Wire Co.	Trenton Iron Co.	Stubs Steel Wire	No. of Gauge
7 ⁰	.....	.....	.500	.500	.....	.....	.....	7 ⁰
6 ⁰	.....	.....	.46875	.464	.....	.....	.....	6 ⁰
5 ⁰	.....	.....	.4375	.432	.....	.45	.....	5 ⁰
4 ⁰	.454	.46	.40625	.400	.3938	.40	.....	4 ⁰
3 ⁰	.425	.40964	.375	.372	.3625	.36	.....	3 ⁰
2 ⁰	.380	.3648	.34375	.348	.3310	.33	.....	2 ⁰
0	.340	.32486	.3125	.324	.3065	.305	.....	0
1	.300	.2893	.28125	.300	.2830	.285	.227	1
2	.284	.25763	.265625	.276	.2625	.265	.219	2
3	.259	.22942	.25	.252	.2437	.245	.212	3
4	.238	.20431	.234375	.232	.2253	.225	.207	4
5	.220	.18194	.21875	.212	.2070	.205	.204	5
6	.203	.16202	.203125	.192	.1920	.190	.201	6
7	.180	.14428	.1875	.176	.1770	.175	.199	7
8	.165	.12849	.171875	.160	.1620	.160	.197	8
9	.148	.11443	.15625	.144	.1483	.145	.194	9
10	.134	.10189	.140625	.128	.1350	.130	.191	10
11	.120	.090742	.125	.116	.1205	.1175	.188	11
12	.109	.080808	.109375	.104	.1055	.1050	.185	12
13	.095	.071961	.09375	.092	.0915	.0925	.182	13
14	.083	.064084	.078125	.080	.0800	.0800	.180	14
15	.072	.057068	.0703125	.072	.0720	.0700	.178	15
16	.065	.05082	.0625	.064	.0625	.0610	.175	16
17	.058	.045257	.05625	.056	.0540	.0525	.172	17
18	.049	.040303	.05	.048	.0475	.0450	.168	18
19	.042	.03589	.04375	.040	.0410	.0400	.164	19
20	.035	.031961	.0375	.036	.0348	.0350	.161	20
21	.032	.028462	.034375	.032	.03175	.0310	.157	21
22	.028	.025347	.03125	.028	.0286	.0280	.155	22
23	.025	.022571	.028125	.024	.0258	.0250	.153	23
24	.022	.0201	.025	.022	.0230	.0225	.151	24
25	.020	.0179	.021875	.020	.0204	.0200	.148	25
26	.018	.01594	.01875	.018	.0181	.0180	.146	26
27	.016	.014195	.0171875	.0164	.0173	.0170	.143	27
28	.014	.012641	.015625	.0148	.0162	.0160	.139	28
29	.013	.011257	.0140625	.0136	.0150	.0150	.134	29
30	.012	.010025	.0125	.0124	.0140	.0140	.127	30
31	.010	.008928	.0109375	.0116	.0132	.0130	.120	31
32	.009	.00795	.01015625	.0108	.0128	.0120	.115	32
33	.008	.00708	.009375	.0100	.0118	.0110	.112	33
34	.007	.006304	.00859375	.0092	.0104	.0100	.110	34
35	.005	.005614	.0078125	.0084	.0095	.0095	.108	35
36	.004	.005	.00703125	.0076	.0090	.0090	.106	36
37	.....	.004453	.006640625	.0068	.....	.0085	.103	37
38	.....	.003965	.00625	.0060	.....	.0080	.101	38
39	.....	.003531	.....	.....	.....	.0075	.099	39
40	.....	.003144	.....	.....	.....	.0070	.097	40

VALUE OF BIRMINGHAM WIRE GAUGE

Gauge	Part of an Inch	Dec. of an Inch	Weight per Sq. Foot Steel
00000	$\frac{1}{2}$	.50	20.40
	$\frac{15}{32}$	.4687	19.13
0000		.454	18.52
	$\frac{7}{16}$	.4375	17.85
000		.425	17.34
	$\frac{13}{32}$	.4062	16.58
00		.380	15.50
	$\frac{3}{8}$	.375	15.30
	$\frac{11}{32}$	.3437	14.03
0		.340	13.87
	$\frac{5}{16}$	.3125	12.75
1		.300	12.24
	$\frac{19}{64}$	.296	12.11
2		.284	11.59
	$\frac{9}{32}$	.281	11.48
	$\frac{17}{64}$	.265	10.84
3		.259	10.57
	$\frac{1}{4}$	.250	10.20
4		.238	9.71
	$\frac{15}{64}$	.234	9.56
5		.220	8.98
	$\frac{7}{32}$	.2187	8.93
6		.203	8.29
	$\frac{13}{64}$	.1875	7.65
7		.180	7.34
	$\frac{11}{64}$	.171	7.01
8		.165	6.73
	$\frac{5}{32}$	.1562	6.38
9		.148	6.04
	$\frac{9}{64}$	.140	5.74
10		.134	5.47
	$\frac{1}{8}$	.125	5.10
11		.120	4.90
12		.109	4.46
13		.095	3.88
	$\frac{3}{32}$	.0937	3.83
14		.083	3.39
	$\frac{5}{64}$	.078	3.19
15		.072	2.94
16		.065	2.65
	$\frac{1}{16}$	.0625	2.55
17		.058	2.37
18		.049	2.00
	$\frac{3}{64}$	.046	1.91
19		.042	1.71
20		.035	1.43
21		.032	1.31
		.0313	1.28
22		.028	1.14
23		.025	1.02
24		.022	0.90
25		.020	0.82
26		.018	0.73
27		.016	0.65
	$\frac{1}{64}$	.0156	0.64

DECIMALS OF AN INCH FOR EACH $\frac{1}{8}$ th

$\frac{1}{32}$	$\frac{1}{8}$	Decimal	Fraction	$\frac{1}{32}$	$\frac{1}{8}$	Decimal	Fraction
	1	.015625			33	.515625	
1	2	.03125		17	34	.53125	
	3	.046875			35	.546875	
2	4	.0625	1-16	18	36	.5625	9-16
	5	.078125			37	.578125	
3	6	.09375		19	38	.59375	
	7	.109375			39	.609375	
4	8	.125	1-8	20	40	.625	5-8
	9	.140625			41	.640625	
5	10	.15625		21	42	.65625	
	11	.171875			43	.671875	
6	12	.1875	3-16	22	44	.6875	11-16
	13	.203125			45	.703125	
7	14	.21875		23	46	.71875	
	15	.234375			47	.734375	
8	16	.25	1-4	24	48	.75	3-4
	17	.265625			49	.765625	
9	18	.28125		25	50	.78125	
	19	.296875			51	.796875	
10	20	.3125	5-16	26	52	.8125	13-16
	21	.328125			53	.828125	
11	22	.34375		27	54	.84375	
	23	.359375			55	.859375	
12	24	.375	3-8	28	56	.875	7-8
	25	.390625			57	.890625	
13	26	.40625		29	58	.90625	
	27	.421875			59	.921875	
14	28	.4375	7-16	30	60	.9375	15-16
	29	.453125			61	.953125	
15	30	.46875		31	62	.96875	
	31	.484375			63	.984375	
16	32	.5	1-2	32	64	1.	1

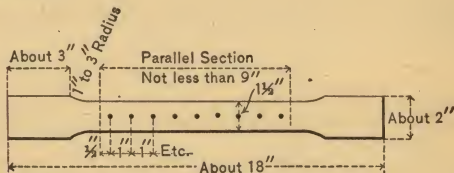
DECIMALS OF A FOOT FOR EACH $\frac{1}{16}$ th OF AN INCH

Inch	0"	1"	2"	3"	4"	5"	6"	7"	8"	9"	10"	11"
0	0	.0833	.1667	.2500	.3333	.4167	.5000	.5833	.6667	.7500	.8333	.9167
$\frac{1}{16}$	.0013	.0846	.1680	.2513	.3346	.4180	.5013	.5846	.6680	.7513	.8346	.9180
$\frac{2}{16}$	.0026	.0859	.1693	.2526	.3359	.4193	.5026	.5859	.6693	.7526	.8359	.9193
$\frac{3}{16}$	.0039	.0872	.1706	.2539	.3372	.4206	.5039	.5872	.6706	.7539	.8372	.9206
$\frac{4}{16}$	.0052	.0885	.1719	.2552	.3385	.4219	.5052	.5885	.6719	.7552	.8385	.9219
$\frac{5}{16}$	.0065	.0898	.1732	.2565	.3398	.4232	.5065	.5898	.6732	.7565	.8398	.9232
$\frac{6}{16}$	.0078	.0911	.1745	.2578	.3411	.4245	.5078	.5911	.6745	.7578	.8411	.9245
$\frac{7}{16}$	.0091	.0924	.1758	.2591	.3424	.4258	.5091	.5924	.6758	.7591	.8424	.9258
$\frac{8}{16}$	.0104	.0937	.1771	.2604	.3437	.4271	.5104	.5937	.6771	.7604	.8437	.9271
$\frac{9}{16}$	.0117	.0951	.1784	.2617	.3451	.4284	.5117	.5951	.6784	.7617	.8451	.9284
$\frac{10}{16}$	.0130	.0964	.1797	.2630	.3464	.4297	.5130	.5964	.6797	.7630	.8464	.9297
$\frac{11}{16}$	.0143	.0977	.1810	.2643	.3477	.4310	.5143	.5977	.6810	.7643	.8477	.9310
$\frac{12}{16}$	.0156	.0990	.1823	.2656	.3490	.4323	.5156	.5990	.6823	.7656	.8490	.9323
$\frac{13}{16}$	.0169	.1003	.1836	.2669	.3503	.4336	.5169	.6003	.6836	.7669	.8503	.9336
$\frac{14}{16}$	.0182	.1016	.1849	.2682	.3516	.4349	.5182	.6016	.6849	.7682	.8516	.9349
$\frac{15}{16}$	.0195	.1029	.1862	.2695	.3529	.4362	.5195	.6029	.6862	.7695	.8529	.9362
$\frac{16}{16}$	.0208	.1042	.1875	.2708	.3542	.4375	.5208	.6042	.6875	.7708	.8542	.9375
$\frac{17}{16}$	.0221	.1055	.1888	.2721	.3555	.4388	.5221	.6055	.6888	.7721	.8555	.9388
$\frac{18}{16}$	.0234	.1068	.1901	.2734	.3568	.4401	.5234	.6068	.6901	.7734	.8568	.9401
$\frac{19}{16}$	.0247	.1081	.1914	.2747	.3581	.4414	.5247	.6081	.6914	.7747	.8581	.9414
$\frac{20}{16}$	.0260	.1094	.1927	.2760	.3594	.4427	.5260	.6094	.6927	.7760	.8594	.9427
$\frac{21}{16}$	.0273	.1107	.1940	.2773	.3607	.4440	.5273	.6107	.6940	.7773	.8607	.9440
$\frac{22}{16}$	.0286	.1120	.1953	.2786	.3620	.4453	.5286	.6120	.6953	.7786	.8620	.9453
$\frac{23}{16}$	.0299	.1133	.1966	.2799	.3633	.4466	.5299	.6133	.6966	.7799	.8633	.9466
$\frac{24}{16}$	.0312	.1146	.1979	.2812	.3646	.4479	.5312	.6146	.6979	.7812	.8646	.9479
$\frac{25}{16}$	.0326	.1159	.1992	.2826	.3659	.4492	.5326	.6159	.6992	.7826	.8659	.9492
$\frac{26}{16}$	.0339	.1172	.2005	.2839	.3672	.4505	.5339	.6172	.7005	.7839	.8672	.9505
$\frac{27}{16}$	.0352	.1185	.2018	.2852	.3685	.4518	.5352	.6185	.7018	.7852	.8685	.9518
$\frac{28}{16}$	.0365	.1198	.2031	.2865	.3698	.4531	.5365	.6198	.7031	.7865	.8698	.9531
$\frac{29}{16}$	.0378	.1211	.2044	.2878	.3711	.4544	.5378	.6211	.7044	.7878	.8711	.9544
$\frac{30}{16}$	.0391	.1224	.2057	.2891	.3724	.4557	.5391	.6224	.7057	.7891	.8724	.9557
$\frac{31}{16}$	.0404	.1237	.2070	.2904	.3737	.4570	.5404	.6237	.7070	.7904	.8737	.9570
$\frac{32}{16}$	.0417	.1250	.2083	.2917	.3750	.4583	.5417	.6250	.7083	.7917	.8750	.9583

MANUFACTURERS' STANDARD SPECIFICATIONS

STRUCTURAL STEEL

- | | |
|---------------------------|---|
| Process of
Manufacture | 1. Steel may be made by either the Open-hearth or Bessemer process. |
| Testing and
Inspection | 2. All tests and inspections shall be made at the place of manufacture prior to shipment. |
| Test Pieces | 3. The tensile strength, limit of elasticity and ductility, shall be determined from a standard test piece cut from the finished material. The standard shape of the test piece for sheared plates shall be as shown by the following sketch. |



Piece to be of same thickness as the plate

On tests cut from other material the test piece may be either the same as for sheared plates, or it may be planed or turned parallel throughout its entire length, and in all cases where possible, two opposite sides of the test piece shall be the rolled surfaces. The elongation shall be measured on an original length of 8 inches except as modified in section 12 paragraph *c*. Rivet rounds and small bars shall be tested of full size as rolled.

Two test pieces shall be taken from each melt or blow of finished material, one for tension and one for bending; but in case either test develops flaws, or the tensile test piece breaks outside of the middle third of its gauged length, it may be discarded and another test piece substituted therefor.

Annealed
Test Pieces

4. Material which is to be used without annealing or further treatment shall be tested in the condition in which it comes from the rolls. When material is to be annealed or otherwise treated before use, the specimen representing such material shall be similarly treated before testing.

Marking	5. Every finished piece of steel shall be stamped with the blow or melt number, and steel for pins shall have the blow or melt number stamped on the ends. Rivet and lacing steel, and small pieces for pin plates and stiffeners, may be shipped in bundles securely wired together, with the blow or melt number on a metal tag attached.	
Finish	6. Finished bars shall be free from injurious seams flaws or cracks, and have a workmanlike finish.	
Chemical Properties	7a. Steel for Buildings, Train Sheds, Highway Bridges and similar structures.	Maximum Phosphorus .10 per cent.
	7b. Steel for Railway Bridges.	Maximum Phosphorus .08 per cent.
Physical Properties	8. Structural steel shall be of three grades, Rivet, Railway Bridge and Medium.	
Rivet Steel	9. Ultimate strength, 48,000 to 58,000 pounds per square inch. Elastic limit, not less than one-half the ultimate strength. Percentage of elongation, $\frac{1,400,000}{\text{ultimate strength}}$. Bending test, 180 degrees flat on itself, without fracture on outside of bent portion.	
Steel for Railway Bridges	10. Ultimate strength, 55,000 to 65,000 pounds per square inch. Elastic limit, not less than one-half the ultimate strength. Percentage of elongation, $\frac{1,400,000}{\text{ultimate strength}}$. Bending test, 180 degrees to a diameter equal to thickness of piece tested, without fracture on outside of bent portion.	
Medium Steel	11. Ultimate strength, 60,000 to 70,000 pounds per square inch. Elastic limit, not less than one-half the ultimate strength. Percentage of elongation, $\frac{1,400,000}{\text{ultimate strength}}$. Bending test, 180 degrees to a diameter equal to thickness of piece tested, without fracture on outside of bent portion.	

Modifications
in
Elongation
for thin and
thick
material

12. For material less than $\frac{1}{8}$ inch and more than $\frac{3}{4}$ inch in thickness, the following modifications shall be made in the requirements for elongation:

a. For each increase of $\frac{1}{8}$ inch in thickness above $\frac{3}{4}$ inch, a deduction of 1 per cent. shall be made from the specified elongation, except that the minimum elongation shall be 20 per cent. for eye-bar material and 18 per cent. for other structural material.

b. For each decrease of $\frac{1}{8}$ inch in thickness below $\frac{1}{8}$ inch, a deduction of $2\frac{1}{2}$ per cent. shall be made from the specified elongation.

c. In rounds of $\frac{5}{8}$ inch or less in diameter, the elongation shall be measured in a length equal to eight times the diameter of section tested.

d. For pins made from any of the before-mentioned grades of steel, the required elongation shall be 5 per cent. less than that specified for each grade, as determined on a test piece, the center of which shall be one inch from the surface of the bar.

Variation in
Weight

13. The variation in cross-section or weight of more than $2\frac{1}{2}$ per cent. from that specified will be sufficient cause for rejection, except in the case of sheared plates, which will be covered by the following permissible variations:

a. Plates $12\frac{1}{2}$ pounds per square foot or heavier, up to 100 inches wide, when ordered to weight, shall not average more than $2\frac{1}{2}$ per cent. variation above or $2\frac{1}{2}$ per cent. below the theoretical weight. When 100 inches wide and over, 5 per cent. above or 5 per cent. below the theoretical weight.

b. Plates under $12\frac{1}{2}$ pounds per square foot, when ordered to weight, shall not average a greater variation than the following:

Up to 75 inches wide, $2\frac{1}{2}$ per cent. above or $2\frac{1}{2}$ per cent. below the theoretical weight. 75 inches wide up to 100 inches wide, 5 per cent. above or 3 per cent. below the theoretical weight. When 100 inches wide and over, 10 per cent. above or 3 per cent. below the theoretical weight.

c. For all plates ordered to gauge, there will be permitted an average excess of weight over that corresponding to the dimensions on the order equal in amount to that specified in the following table:

TABLE OF ALLOWANCES FOR OVER-WEIGHT FOR RECTANGULAR PLATES WHEN ORDERED TO GAUGE

Plates will be considered up to gauge if measuring not over $\frac{1}{16}$ inch less than the ordered gauge.

The weight of 1 cubic inch of rolled steel is assumed to be 0.2833 pound.

PLATES $\frac{1}{4}$ INCH AND OVER IN THICKNESS

Thickness of Plate, Inch.	Width of Plate			
	Up to 75 inches Per cent.	75 to 100 inches Per cent.	Over 100 to 115 inches Per cent.	Over 115 inches Per cent.
$\frac{1}{4}$	10	14	18	
$\frac{5}{16}$	8	12	16	
$\frac{3}{8}$	7	10	13	17
$\frac{7}{16}$	6	8	10	13
$\frac{1}{2}$	5	7	9	12
$\frac{5}{8}$	4½	6½	8½	11
$\frac{3}{4}$	4	6	8	10
Over $\frac{3}{4}$	3½	5	6½	9

PLATES UNDER $\frac{1}{4}$ INCH IN THICKNESS

Thickness of Plate, Inch	Width of Plate		
	Up to 50 inches Per cent.	50 to 70 inches Per cent.	Over 70 inches Per cent.
$\frac{1}{8}$ up to $\frac{5}{16}$	10	15	20
$\frac{5}{16}$ up to $\frac{3}{8}$	8½	12½	17
$\frac{3}{8}$ up to $\frac{1}{4}$	7	10	15

STRUCTURAL CAST IRON

1. Except when chilled iron is specified, all castings shall be tough gray iron, free from injurious cold-shuts or blow-holes, true to pattern and of a workmanlike finish. Sample pieces, 1 inch square, cast from the same heat of metal in sand moulds, shall be capable of sustaining on a clear span of 4 feet 8 inches, a central load of 500 pounds when tested in the rough bar.

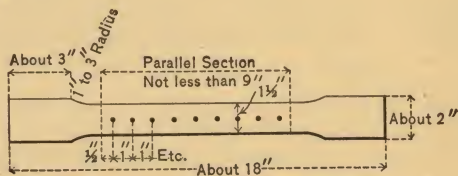
SPECIAL OPEN-HEARTH PLATE AND RIVET STEEL

Testing and Inspection

1. All tests and inspections shall be made at the place of manufacture prior to shipment.

Test Pieces

2. The tensile strength, limit of elasticity and ductility, shall be determined from a standard test piece cut from the finished material. The standard shape of the test piece for sheared plates shall be as shown by the following sketch :



Piece to be of same thickness as the plate

On tests cut from other material the test piece may be either the same as for sheared plates, or it may be planed or turned parallel throughout its entire length and in all cases where possible, two opposite sides of the test piece shall be the rolled surfaces. The elongation shall be measured on an original length of 8 inches, except as modified in section 12, paragraph *c*. Rivet rounds and small bars shall be tested of full size as rolled.

Four test pieces shall be taken from each melt of finished material, two for tension and two for bending; but in case either test develops flaws, or the tensile test piece breaks outside of the middle third of its gauged length, it may be discarded and another test piece substituted therefor.

Annealed Test Pieces

3. Material which is to be used without annealing or further treatment shall be tested in the condition in which it comes from the rolls. When material is to be annealed or otherwise treated before use, the specimen representing such material shall be similarly treated before testing.

Marking	4. Every finished piece of steel shall be stamped with the melt number. Rivet steel may be shipped in bundles securely wired together, with the melt number on a metal tag attached.		
Finish	5. All plates shall be free from injurious surface defects and have a workmanlike finish.		
Chemical Properties	6a. Flange or Boiler Steel.	Maximum	Phosphorus .06 per cent.
		"	Sulphur .04 " "
	6b. Extra soft and Fire Box Steel.	"	Phosphorus .04 " "
		"	Sulphur .04 " "
Physical Properties	7. Special open hearth Plate and Rivet Steel shall be of three grades, Extra Soft, Fire Box and Flange or Boiler Steel.		
Extra Soft Steel	8. Ultimate strength, 45,000 to 55,000 pounds per square inch.		
	Elastic limit, not less than one-half the ultimate strength.		
	Elongation, 28 per cent.		
	Cold and Quench bends, 180 degrees flat on itself, without fracture on outside of bent portion.		
Fire Box Steel	9. Ultimate strength, 52,000 to 62,000 pounds per square inch.		
	Elastic limit, not less than one-half the ultimate strength.		
	Elongation, 25 per cent.		
	Cold and Quench bends, 180 degrees flat on itself, without fracture on outside of bent portion.		
Flange or Boiler Steel	10. Ultimate strength, 55,000 to 65,000 pounds per square inch.		
	Elastic limit, not less than one-half the ultimate strength.		
	Elongation, 25 per cent.		
	Cold and Quench bends, 180 degrees flat on itself, without fracture on outside of bent portion.		
Boiler Rivet Steel	11. Steel for boiler rivets shall be made of the extra soft grade specified in paragraph No. 8.		

Modifications
in
Elongation
for thin and
thick
material

12. For material less than $\frac{1}{8}$ inch, and more than $\frac{3}{4}$ inch in thickness, the following modifications shall be made in the requirements for elongation:

a. For each increase of $\frac{1}{8}$ inch in thickness above $\frac{3}{4}$ inch, a deduction of 1 per cent. shall be made from the specified elongation.

b. For each decrease of $\frac{1}{16}$ inch in thickness below $\frac{1}{8}$ inch, a deduction of $2\frac{1}{2}$ per cent. shall be made from the specified elongation.

c. In rounds of $\frac{5}{8}$ inch or less in diameter, the elongation shall be measured in a length equal to eight times the diameter of section tested.

Variation
in Weight

13. The variation in cross-section or weight of more than $2\frac{1}{2}$ per cent. from that specified will be sufficient cause for rejection, except in the case of sheared plates, which will be covered by the following permissible variations:

a. Plates $12\frac{1}{2}$ pounds per square foot or heavier, up to 100 inches wide, when ordered to weight, shall not average more than $2\frac{1}{2}$ per cent. variation above or $2\frac{1}{2}$ per cent. below the theoretical weight. When 100 inches wide and over, 5 per cent. above or 5 per cent. below the theoretical weight.

b. Plates under $12\frac{1}{2}$ pounds per square foot, when ordered to weight, shall not average a greater variation than the following:

Up to 75 inches wide, $2\frac{1}{2}$ per cent. above or $2\frac{1}{2}$ per cent. below the theoretical weight. 75 inches wide up to 100 inches wide, 5 per cent. above or 3 per cent. below the theoretical weight. When 100 inches wide and over, 10 per cent. above or 3 per cent. below the theoretical weight.

c. For all plates ordered to gauge there will be permitted an average excess of weight over that corresponding to the dimensions on the order equal in amount to that specified in the following table:

TABLE OF ALLOWANCES FOR OVER- WEIGHT FOR RECTANGULAR PLATES WHEN ORDERED TO GAUGE

Plates will be considered up to gauge if measuring not over $\frac{1}{16}$ inch less than the ordered gauge.

The weight of 1 cubic inch of rolled steel is assumed to be 0.2833 pound.

PLATES $\frac{1}{4}$ INCH AND OVER IN THICKNESS

Thickness of Plate, Inch	Width of Plate			
	Up to 75 inches Per cent.	75 to 100 inches Per cent.	Over 100 to 115 inches Per cent.	Over 115 inches Per cent.
$\frac{1}{4}$	10	14	18	
$\frac{5}{16}$	8	12	16	
$\frac{3}{8}$	7	10	13	17
$\frac{7}{16}$	6	8	10	13
$\frac{1}{2}$	5	7	9	12
$\frac{9}{16}$	$4\frac{1}{2}$	$6\frac{1}{2}$	$8\frac{1}{2}$	11
$\frac{5}{8}$	4	6	8	10
Over $\frac{5}{8}$	$3\frac{1}{2}$	5	$6\frac{1}{2}$	9

PLATES UNDER $\frac{1}{4}$ INCH IN THICKNESS

Thickness of Plate, Inch	Width of Plate		
	Up to 50 inches Per cent.	50 to 70 inches Per cent.	Over 70 inches Per cent.
$\frac{1}{8}$ up to $\frac{5}{32}$	10	15	20
$\frac{5}{32}$ up to $\frac{3}{16}$	$8\frac{1}{2}$	$12\frac{1}{2}$	17
$\frac{3}{16}$ up to $\frac{1}{4}$	7	10	15

SPECIFICATIONS FOR WORKMANSHIP**Inspection**

1. Inspection of work shall be made as it progresses, and at as early a period as the nature of the work permits.

2. All workmanship must be first-class. All abutting surfaces of compression members, except flanges of plate girders where the joints are fully spliced, must be planed or turned to even bearings so that they shall be in such contact throughout as may be obtained by such means. All finished surfaces must be protected by white lead and tallow.

3. The rivet holes for splice plates of abutting members shall be so accurately spaced that when the members are brought into position the holes shall be truly opposite before the rivets are driven.

4. Rollers must be finished perfectly round and roller-beds planed.

Rivets

5. The pitch of rivets in all classes of work shall never exceed 6 in., nor 16 times the thinnest outside plate, nor be less than 3 diameters of the rivet. The rivets used shall generally be $\frac{5}{8}$, $\frac{3}{4}$ and $\frac{7}{8}$ in. diameter. The distance between the edge of any piece and the center of a rivet hole must never be less than $1\frac{1}{4}$ in., except for bars less than $2\frac{1}{2}$ in. wide. When practicable it shall be at least 2 diameters of the rivet. Rivets must completely fill the holes, have full heads concentric with the rivet, of a height not less than .6 the diameter of the rivet, and in full contact with the surface, or be countersunk when so required, and machine-driven wherever practicable.

Punching

6. The diameter of the punch shall not exceed by more than $\frac{1}{16}$ in. the diameter of the rivets to be used, and all holes must be clean cuts without torn or ragged edges. Rivet holes must be accurately spaced; the use of drift pins will be allowed only for bringing together the several parts forming a member, and they must not be driven with such force as to disturb the metal about the holes.

7. Built members must, when finished, be true and free from twists, kinks, buckles or open joints between the component pieces.

Eye-bars and
Pin-holes

8. All pin-holes must be accurately bored at right angles to the axis of the members, unless otherwise shown in the drawings, and in pieces not adjustable for length no variation of more than $\frac{1}{32}$ of an inch will be allowed in the length between centers of pin-holes; the diameter of the pin-holes shall not exceed that of the pins by more than $\frac{1}{32}$ in., nor by more than $\frac{1}{16}$ in. for pins under $3\frac{1}{2}$ in. diameter. Eye-bars must be straight before boring; the holes must be in the center of the heads, and on the center line of the bars. Whenever eye-bars are to be packed more than $\frac{1}{8}$ of an inch to the foot of their length out of parallel with the axis of the structure, they must be bent with a gentle curve until the head stands at right angles to the pin in their intended positions before being bored. All eye-bars belonging to the same panel, when placed in a pile, must allow the pin at each end to pass through at the same time without forcing. No welds will be allowed in the body of the bar of eye-bars, laterals or counters, except to form the loops of laterals, counters and sway rods; eyes of laterals, stirrups, sway rods and counters must be bored; pins and lateral bolts must be finished perfectly round and straight, and the party contracting to erect the work must provide pilot-nuts where necessary to preserve the threads while the pins are being driven. Thimbles or washers must be used whenever required to fill the vacant spaces on pins or bolts.

Pilot-nuts

Annealing

9. In all cases where a steel piece in which the full strength is required has been partially heated the whole piece must be subsequently annealed. All bends in steel must be made cold, or if the degree of curvature is so great as to require heating, the whole piece must be subsequently annealed.

Painting

10. All surfaces inaccessible after assembling must be well painted or oiled before the parts are assembled.

11. The decision of the engineer shall control as to the interpretation of drawings and specifications during the execution of work thereunder, but this shall not deprive the contractor of his right to redress, after the completion of the work, for an improper decision.

STANDARD SPECIFICATIONS FOR STEEL RAILS

(January 1, 1899)

Chemical Composition	1.	50 lbs. up to 60 lbs.	60 lbs. up to 70 lbs.	70 lbs. up to 80 lbs.
Carbon.....		.35 to .45	.38 to .48	.40 to .50
Phosphorus....		not over .10	not over .10	not over .10
Silicon.....		not over .20	not over .20	not over .20
Manganese.....		.70 to 1.00	.70 to 1.00	.75 to 1.05
			80 lbs. up to 90 lbs.	90 lbs. up to 100 lbs.
Carbon.....			.43 to .53	.45 to .55
Phosphorus.....			not over .10	not over .10
Silicon.....			not over .20	not over .20
Manganese.....			.80 to 1.10	.80 to 1.10

Section

2. Unless otherwise specified, the section of rail shall be the American Standard, recommended by the American Society of Civil Engineers, and shall conform, as accurately as possible, to the templet furnished by the Railroad Company, consistent with Clause No. 3, relative to specified weight. An allowance in height of $\frac{1}{8}$ of an inch under and $\frac{1}{32}$ of an inch over, will be permitted. A perfect fit of the splice bars, however, shall be maintained at all times.

Weight

3. The weight of the rails shall be maintained as near as possible, after complying with Clause No. 2, to that specified in contract. A variation of $\frac{1}{2}$ of 1 per cent. for an entire order will be allowed. Rails shall be accepted and settled for according to actual weight.

Length

4. The standard length of rails shall be 30 feet. Ten per cent. of the entire order will be accepted in shorter lengths, varying by even feet down to 24 feet. A variation of $\frac{1}{4}$ inch in length from the lengths specified will be allowed.

- Branding** 5. The name of the maker and the month and year of manufacture shall be rolled in raised letters on the side of the web, and the number of the heat shall be stamped on each rail.
- Drilling** 6. Circular holes for splice bars shall be drilled in accordance with specifications of purchaser. They shall be accurate to drawing and dimensions furnished in every respect, and free from burrs.
- Finishing** 7. Rails to be straightened while cold, to be smooth on head, to be sawed square at ends, and, prior to shipment, to have the burr occasioned by the saw cutting removed, and to have ends made clean. They are to be free from injurious defects and flaws of all kinds.
- Inspection** 8. The inspector, representing the purchaser, shall have free access to the works of the manufacturer at all times while his contract is being executed, and shall have all reasonable facilities afforded to satisfy him that the rails are being made in accordance with specifications. The manufacturer shall furnish the inspector, daily, with carbon determinations of each heat, and a complete chemical analysis every twenty-four hours, representing the average of the other elements contained in the steel.
- No. 2 Rails** 9. Rails which possess any injurious physical defects, or for any other cause are not suitable for first quality, shall be considered No. 2 Rails.

STANDARD SPECIFICATIONS FOR STEEL SPLICE BARS

(January 1, 1899)

Chemical Composition

1. Carbon, not to exceed..... 0.15 per cent.
- Phosphorous, not to exceed..... 0.10 per cent.
- Manganese0.40 to 0.60 per cent.

Physical Properties

2. Test pieces cut from head of splice bar must show:
 - a. Ultimate strength, 54,000 to 64,000 lbs. per square inch.
 - b. Elastic limit, not less than one-half the ultimate strength.
 - c. Elongation, not less than 25 per cent. measured in 8 in. (203 millimeters).
 - d. Bending test, 180 degrees flat on itself without fracture on outside of bent portion.

Finish

3. All splice bars shall be smoothly rolled and true to templet. The name of maker and year of manufacture shall be rolled in raised letters on the side of the bar. The bars shall be sheared accurately to lengths and free from fins or cracks, and shall be perfect fit to the rails for which they are intended.

Workmanship 4. The punching and notching of Splice Bars must be accurate in every respect to drawing and dimensions furnished.

Inspection 5. The inspector, representing the purchaser, shall have free access to the works of the manufacturer at all times while his contract is being executed, and shall have all reasonable facilities afforded to satisfy him that splice bars are being made in accordance with specifications.

**SQUARES, CUBES, SQUARE ROOTS, CUBE ROOTS, LOGARITHMS, RECIPROCAL,
CIRCUMFERENCES AND CIRCULAR AREAS OF NOS. FROM 1 TO 1000**

No.	Square	Cube	Sq. Root	Cu. Root	Log.	1000xRecip.	No. = Dia.	
							Circum.	Area
1	1	1	1.0000	1.0000	0.00000	1000.000	3.142	0.7854
2	4	8	1.4142	1.2599	0.30103	500.000	6.283	3.1416
3	9	27	1.7321	1.4422	0.47712	333.333	9.425	7.0686
4	16	64	2.0000	1.5874	0.60206	250.000	12.566	12.5664
5	25	125	2.2361	1.7100	0.69897	200.000	15.708	19.6350
6	36	216	2.4495	1.8171	0.77815	166.667	18.850	28.2743
7	49	343	2.6458	1.9129	0.84510	142.857	21.991	38.4845
8	64	512	2.8284	2.0000	0.90309	125.000	25.133	50.2655
9	81	729	3.0000	2.0801	0.95424	111.111	28.274	63.6173
10	100	1000	3.1623	2.1544	1.00000	100.000	31.416	78.5398
11	121	1331	3.3166	2.2240	1.04139	90.9091	34.558	95.0332
12	144	1728	3.4641	2.2894	1.07918	83.3333	37.699	113.097
13	169	2197	3.6056	2.3513	1.11394	76.9231	40.841	132.732
14	196	2744	3.7417	2.4101	1.14613	71.4286	43.982	153.938
15	225	3375	3.8730	2.4662	1.17609	66.6667	47.124	176.715
16	256	4096	4.0000	2.5198	1.20412	62.5000	50.265	201.062
17	289	4913	4.1231	2.5713	1.23045	58.8235	53.407	226.980
18	324	5832	4.2426	2.6207	1.25527	55.5556	56.549	254.469
19	361	6859	4.3589	2.6684	1.27875	52.6316	59.690	283.529
20	400	8000	4.4721	2.7144	1.30103	50.0000	62.832	314.159
21	441	9261	4.5826	2.7589	1.32222	47.6190	65.973	346.361
22	484	10648	4.6904	2.8020	1.34242	45.4545	69.115	380.133
23	529	12167	4.7958	2.8439	1.36173	43.4783	72.257	415.476
24	576	13824	4.8990	2.8845	1.38021	41.6667	75.398	452.389
25	625	15625	5.0000	2.9240	1.39794	40.0000	78.540	490.874
26	676	17576	5.0990	2.9625	1.41497	38.4615	81.681	530.929
27	729	19683	5.1962	3.0000	1.43136	37.0370	84.823	572.555
28	784	21952	5.2915	3.0366	1.44716	35.7143	87.965	615.752
29	841	24389	5.3852	3.0723	1.46240	34.4828	91.106	660.520
30	900	27000	5.4772	3.1072	1.47712	33.3333	94.248	706.858
31	961	29791	5.5678	3.1414	1.49136	32.2581	97.389	754.768
32	1024	32768	5.6569	3.1748	1.50515	31.2500	100.531	804.248
33	1089	35937	5.7446	3.2075	1.51851	30.3030	103.673	855.299
34	1156	39304	5.8310	3.2396	1.53148	29.4118	106.814	907.920
35	1225	42875	5.9161	3.2711	1.54407	28.5714	109.956	962.113
36	1296	46656	6.0000	3.3019	1.55630	27.7778	113.097	1017.88
37	1369	50653	6.0828	3.3322	1.56820	27.0270	116.239	1075.21
38	1444	54872	6.1644	3.3620	1.57978	26.3158	119.381	1134.11
39	1521	59319	6.2450	3.3912	1.59106	25.6410	122.522	1194.59
40	1600	64000	6.3246	3.4200	1.60206	25.0000	125.66	1256.64
41	1681	68921	6.4031	3.4482	1.61278	24.3902	128.81	1320.25
42	1764	74088	6.4807	3.4760	1.62325	23.8095	131.95	1385.44
43	1849	79507	6.5574	3.5034	1.63347	23.2558	135.09	1452.20
44	1936	85184	6.6332	3.5303	1.64345	22.7273	138.23	1520.53
45	2025	91125	6.7082	3.5569	1.65321	22.2222	141.37	1590.43
46	2116	97336	6.7823	3.5830	1.66276	21.7391	144.51	1661.90
47	2209	103823	6.8557	3.6088	1.67210	21.2766	147.65	1734.94
48	2304	110592	6.9282	3.6342	1.68124	20.8333	150.80	1809.56
49	2401	117649	7.0000	3.6593	1.69020	20.4082	153.94	1885.74

**SQUARES, CUBES, SQUARE ROOTS, CUBE ROOTS, LOGARITHMS, RECIPROCALs,
CIRCUMFERENCES AND CIRCULAR AREAS OF NOS. FROM 1 TO 1000**

No.	Square	Cube	Sq. Root	Cu. Root	Log.	1000xRecip.	No. = Dia.	
							Circum.	Area
50	2500	125000	7.0711	3.6840	1.69897	20.0000	157.08	1963.50
51	2601	132651	7.1414	3.7084	1.70757	19.6078	160.22	2042.82
52	2704	140608	7.2111	3.7325	1.71600	19.2308	163.36	2123.72
53	2809	148877	7.2801	3.7563	1.72428	18.8679	166.50	2206.18
54	2916	157464	7.3485	3.7798	1.73239	18.5185	169.65	2290.22
55	3025	166375	7.4162	3.8030	1.74036	18.1818	172.79	2375.83
56	3136	175616	7.4833	3.8259	1.74819	17.8571	175.93	2463.01
57	3249	185193	7.5498	3.8485	1.75587	17.5439	179.07	2551.76
58	3364	195112	7.6158	3.8709	1.76343	17.2414	182.21	2642.08
59	3481	205379	7.6811	3.8930	1.77085	16.9492	185.35	2733.97
60	3600	216000	7.7460	3.9149	1.77815	16.6667	188.50	2827.43
61	3721	226981	7.8102	3.9365	1.78533	16.3934	191.64	2922.47
62	3844	238328	7.8740	3.9579	1.79239	16.1290	194.78	3019.07
63	3969	250047	7.9373	3.9791	1.79934	15.8730	197.92	3117.25
64	4096	262144	8.0000	4.0000	1.80618	15.6250	201.06	3216.99
65	4225	274625	8.0623	4.0207	1.81291	15.3846	204.20	3318.31
66	4356	287496	8.1240	4.0412	1.81954	15.1515	207.35	3421.19
67	4489	300763	8.1854	4.0615	1.82607	14.9254	210.49	3525.65
68	4624	314432	8.2462	4.0817	1.83251	14.7059	213.63	3631.68
69	4761	328509	8.3066	4.1016	1.83885	14.4928	216.77	3739.28
70	4900	343000	8.3666	4.1213	1.84510	14.2857	219.91	3848.45
71	5041	357911	8.4261	4.1408	1.85126	14.0845	223.05	3959.19
72	5184	373248	8.4853	4.1602	1.85733	13.8889	226.19	4071.50
73	5329	389017	8.5440	4.1793	1.86332	13.6986	229.34	4185.39
74	5476	405224	8.6023	4.1983	1.86923	13.5135	232.48	4300.84
75	5625	421875	8.6603	4.2172	1.87506	13.3333	235.62	4417.86
76	5776	438976	8.7178	4.2358	1.88081	13.1579	238.76	4536.46
77	5929	456533	8.7750	4.2543	1.88649	12.9870	241.90	4656.63
78	6084	474552	8.8318	4.2727	1.89209	12.8205	245.04	4778.36
79	6241	493039	8.8882	4.2908	1.89763	12.6582	248.19	4901.67
80	6400	512000	8.9443	4.3089	1.90309	12.5000	251.33	5026.55
81	6561	531441	9.0000	4.3267	1.90849	12.3457	254.47	5153.00
82	6724	551368	9.0554	4.3445	1.91381	12.1951	257.61	5281.02
83	6889	571787	9.1104	4.3621	1.91908	12.0482	260.75	5410.61
84	7056	592704	9.1652	4.3795	1.92428	11.9048	263.89	5541.77
85	7225	614125	9.2195	4.3968	1.92942	11.7647	267.04	5674.50
86	7396	636056	9.2736	4.4140	1.93450	11.6279	270.18	5808.80
87	7569	658503	9.3274	4.4310	1.93952	11.4943	273.32	5944.68
88	7744	681472	9.3808	4.4480	1.94448	11.3636	276.46	6082.12
89	7921	704969	9.4340	4.4647	1.94939	11.2360	279.60	6221.14
90	8100	729000	9.4868	4.4814	1.95424	11.1111	282.74	6361.73
91	8281	753571	9.5394	4.4979	1.95904	10.9890	285.88	6503.88
92	8464	778688	9.5917	4.5144	1.96379	10.8696	289.03	6647.61
93	8649	804357	9.6437	4.5307	1.96848	10.7527	292.17	6792.91
94	8836	830584	9.6954	4.5468	1.97313	10.6383	295.31	6939.78
95	9025	857375	9.7468	4.5629	1.97772	10.5263	298.45	7088.22
96	9216	884736	9.7980	4.5789	1.98227	10.4167	301.59	7238.23
97	9409	912673	9.8489	4.5947	1.98677	10.3093	304.73	7389.81
98	9604	941192	9.8995	4.6104	1.99123	10.2041	307.88	7542.96
99	9801	970299	9.9499	4.6261	1.99564	10.1010	311.02	7697.69

SQUARES, CUBES, SQUARE ROOTS, CUBE ROOTS, LOGARITHMS, RECIPROCAL, CIRCUMFERENCES AND CIRCULAR AREAS OF NOS. FROM 1 TO 1000

No.	Square	Cube	Sq. Root	Cu. Root	Log.	1000xRecip.	No. = Dia.	
							Circum.	Area
100	10000	1000000	10.0000	4.6416	2.00000	10.0000	314.16	7853.98
101	10201	1030301	10.0499	4.6570	2.00432	9.90099	317.30	8011.85
102	10404	1061208	10.0995	4.6723	2.00860	9.80392	320.44	8171.28
103	10609	1092727	10.1489	4.6875	2.01284	9.70874	323.58	8332.29
104	10816	1124864	10.1980	4.7027	2.01703	9.61538	326.73	8494.87
105	11025	1157625	10.2470	4.7177	2.02119	9.52381	329.87	8659.01
106	11236	1191016	10.2956	4.7326	2.02531	9.43396	333.01	8824.73
107	11449	1225043	10.3441	4.7475	2.02938	9.34579	336.15	8992.02
108	11664	1259712	10.3923	4.7622	2.03342	9.25926	339.29	9160.88
109	11881	1295029	10.4403	4.7769	2.03743	9.17431	342.43	9331.32
110	12100	1331000	10.4881	4.7914	2.04139	9.09091	345.58	9503.32
111	12321	1367631	10.5357	4.8059	2.04532	9.00901	348.72	9676.89
112	12544	1404928	10.5830	4.8203	2.04922	8.92857	351.86	9852.03
113	12769	1442897	10.6301	4.8346	2.05308	8.84956	355.00	10028.7
114	12996	1481544	10.6771	4.8488	2.05690	8.77193	358.14	10207.0
115	13225	1520875	10.7238	4.8629	2.06070	8.69565	361.28	10386.9
116	13456	1560896	10.7703	4.8770	2.06446	8.62069	364.42	10568.3
117	13689	1601613	10.8167	4.8910	2.06819	8.54701	367.57	10751.3
118	13924	1643032	10.8628	4.9049	2.07188	8.47458	370.71	10935.9
119	14161	1685159	10.9087	4.9187	2.07555	8.40336	373.85	11122.0
120	14400	1728000	10.9545	4.9324	2.07918	8.33333	376.99	11309.7
121	14641	1771561	11.0000	4.9461	2.08279	8.26446	380.13	11499.0
122	14884	1815848	11.0454	4.9597	2.08636	8.19672	383.27	11689.9
123	15129	1860867	11.0905	4.9732	2.08991	8.13008	386.42	11882.3
124	15376	1906624	11.1355	4.9866	2.09342	8.06452	389.56	12076.3
125	15625	1953125	11.1803	5.0000	2.09691	8.00000	392.70	12271.8
126	15876	2000376	11.2250	5.0133	2.10037	7.93651	395.84	12469.0
127	16129	2048383	11.2694	5.0265	2.10380	7.87402	398.98	12667.7
128	16384	2097152	11.3137	5.0397	2.10721	7.81250	402.12	12868.0
129	16641	2146689	11.3578	5.0528	2.11059	7.75194	405.27	13069.8
130	16900	2197000	11.4018	5.0658	2.11394	7.69231	408.41	13273.2
131	17161	2248091	11.4455	5.0788	2.11727	7.63359	411.55	13478.2
132	17424	2299968	11.4891	5.0916	2.12057	7.57576	414.69	13684.8
133	17689	2352637	11.5326	5.1045	2.12385	7.51880	417.83	13892.9
134	17956	2406104	11.5758	5.1172	2.12710	7.46269	420.97	14102.6
135	18225	2460375	11.6190	5.1299	2.13033	7.40741	424.12	14313.9
136	18496	2515456	11.6619	5.1426	2.13354	7.35294	427.26	14526.7
137	18769	2571353	11.7047	5.1551	2.13672	7.29927	430.40	14741.1
138	19044	2628072	11.7473	5.1676	2.13988	7.24638	433.54	14957.1
139	19321	2685619	11.7898	5.1801	2.14301	7.19424	436.68	15174.7
140	19600	2744000	11.8322	5.1925	2.14613	7.14286	439.82	15393.8
141	19881	2803221	11.8743	5.2048	2.14922	7.09220	442.96	15614.5
142	20164	2863288	11.9164	5.2171	2.15229	7.04255	446.11	15836.8
143	20449	2924207	11.9583	5.2293	2.15534	6.99301	449.25	16060.6
144	20736	2985984	12.0000	5.2415	2.15835	6.94444	452.39	16286.0
145	21025	3048625	12.0416	5.2536	2.16137	6.89655	455.53	16513.0
146	21316	3112136	12.0830	5.2656	2.16435	6.84932	458.67	16741.5
147	21609	3176523	12.1244	5.2776	2.16732	6.80272	461.81	16971.7
148	21904	3241792	12.1655	5.2896	2.17026	6.75676	464.96	17203.4
149	22201	3307949	12.2066	5.3015	2.17319	6.71141	468.10	17436.6

**SQUARES, CUBES, SQUARE ROOTS, CUBE ROOTS, LOGARITHMS, RECIPROCAL,
CIRCUMFERENCES AND CIRCULAR AREAS OF NOS. FROM 1 TO 1000**

No.	Square	Cube	Sq. Root	Cu. Root	Log.	1000xRecip.	No. = Dia.	
							Circum.	Area
150	22500	3375000	12.2474	5.3133	2.17609	6.66667	471.24	17671.5
151	22801	3442951	12.2882	5.3251	2.17898	6.62252	474.38	17907.9
152	23104	3511808	12.3288	5.3368	2.18184	6.57895	477.52	18145.8
153	23409	3581577	12.3693	5.3485	2.18469	6.53595	480.66	18385.4
154	23716	3652264	12.4097	5.3601	2.18752	6.49351	483.81	18626.5
155	24025	3723875	12.4499	5.3717	2.19033	6.45161	486.95	18869.2
156	24336	3796416	12.4900	5.3832	2.19312	6.41026	490.09	19113.4
157	24649	3869893	12.5300	5.3947	2.19590	6.36943	493.23	19359.3
158	24964	3944312	12.5698	5.4061	2.19866	6.32911	496.37	19606.7
159	25281	4019679	12.6095	5.4175	2.20140	6.28981	499.51	19855.7
160	25600	4096000	12.6491	5.4288	2.20412	6.25000	502.65	20106.2
161	25921	4173281	12.6886	5.4401	2.20683	6.21118	505.80	20358.3
162	26244	4251528	12.7279	5.4514	2.20952	6.17284	508.94	20612.0
163	26569	4330747	12.7671	5.4626	2.21219	6.13497	512.08	20867.2
164	26896	4410944	12.8062	5.4737	2.21484	6.09756	515.22	21124.1
165	27225	4492125	12.8452	5.4848	2.21748	6.06061	518.36	21382.5
166	27556	4574296	12.8841	5.4959	2.22011	6.02410	521.50	21642.4
167	27889	4657463	12.9228	5.5069	2.22272	5.98802	524.65	21904.0
168	28224	4741632	12.9615	5.5178	2.22531	5.95238	527.79	22167.1
169	28561	4826809	13.0000	5.5288	2.22789	5.91716	530.93	22431.8
170	28900	4913000	13.0384	5.5397	2.23045	5.88235	534.07	22698.0
171	29241	5000211	13.0767	5.5505	2.23300	5.84795	537.21	22965.8
172	29584	5088448	13.1149	5.5613	2.23553	5.81395	540.35	23235.2
173	29929	5177717	13.1529	5.5721	2.23805	5.78035	543.50	23506.2
174	30276	5268024	13.1909	5.5828	2.24055	5.74713	546.64	23778.7
175	30625	5359875	13.2288	5.5934	2.24304	5.71429	549.78	24052.8
176	30976	5451776	13.2665	5.6041	2.24551	5.68182	552.92	24328.5
177	31329	5545233	13.3041	5.6147	2.24797	5.64972	556.06	24605.7
178	31684	5639752	13.3417	5.6252	2.25042	5.61798	559.20	24884.6
179	32041	5735339	13.3791	5.6357	2.25285	5.58659	562.35	25164.9
180	32400	5832000	13.4164	5.6462	2.25527	5.55556	565.49	25446.9
181	32761	5929741	13.4536	5.6567	2.25768	5.52486	568.63	25730.4
182	33124	6028568	13.4907	5.6671	2.26007	5.49451	571.77	26015.5
183	33489	6128487	13.5277	5.6774	2.26245	5.46448	574.91	26302.2
184	33856	6229504	13.5647	5.6877	2.26482	5.43478	578.05	26590.4
185	34225	6331625	13.6015	5.6980	2.26717	5.40541	581.19	26880.3
186	34596	6434856	13.6382	5.7083	2.26951	5.37634	584.34	27171.6
187	34969	6539203	13.6748	5.7185	2.27184	5.34759	587.48	27464.6
188	35344	6644672	13.7113	5.7287	2.27416	5.31915	590.62	27759.1
189	35721	6751269	13.7477	5.7388	2.27646	5.29101	593.76	28055.2
190	36100	6859000	13.7840	5.7489	2.27875	5.26316	596.90	28352.9
191	36481	6967871	13.8203	5.7590	2.28103	5.23560	600.04	28652.1
192	36864	7077888	13.8564	5.7690	2.28330	5.20833	603.19	28952.9
193	37249	7189057	13.8924	5.7790	2.28556	5.18185	606.33	29255.3
194	37636	7301384	13.9284	5.7890	2.28780	5.15464	609.47	29559.2
195	38025	7414875	13.9642	5.7989	2.29003	5.12821	612.61	29864.8
196	38416	7529536	14.0000	5.8088	2.29226	5.10204	615.75	30171.9
197	38809	7645373	14.0357	5.8186	2.29447	5.07614	618.89	30480.5
198	39204	7762392	14.0712	5.8285	2.29667	5.05051	622.04	30790.7
199	39601	7880599	14.1067	5.8383	2.29885	5.02513	625.18	31102.6

SQUARES, CUBES, SQUARE ROOTS, CUBE ROOTS, LOGARITHMS, RECIPROCAL, CIRCUMFERENCES AND CIRCULAR AREAS OF NOS. FROM 1 TO 1000

No.	Square	Cube	Sq. Root	Cu. Root	Log.	1000xRecip.	No. = Dia.	
							Circum.	Area
200	40000	8000000	14.1421	5.8480	2.30103	5.00000	628.32	31415.9
201	40401	8120601	14.1774	5.8578	2.30320	4.97512	631.46	31730.9
202	40804	8242408	14.2127	5.8675	2.30535	4.95050	634.60	32047.4
203	41209	8365427	14.2478	5.8771	2.30750	4.92611	637.74	32365.5
204	41616	8489664	14.2829	5.8868	2.30963	4.90196	640.89	32685.1
205	42025	8615125	14.3178	5.8964	2.31175	4.87805	644.03	33006.4
206	42436	8741816	14.3527	5.9059	2.31387	4.85437	647.17	33329.2
207	42849	8869743	14.3875	5.9155	2.31597	4.83092	650.31	33653.5
208	43264	8998912	14.4222	5.9250	2.31806	4.80769	653.45	33979.5
209	43681	9129329	14.4568	5.9345	2.32015	4.78469	656.59	34307.0
210	44100	9261000	14.4914	5.9439	2.32222	4.76190	659.73	34636.1
211	44521	9393931	14.5258	5.9533	2.32428	4.73934	662.88	34966.7
212	44944	9528128	14.5602	5.9627	2.32634	4.71698	666.02	35298.9
213	45369	9663597	14.5945	5.9721	2.32838	4.69484	669.16	35632.7
214	45796	9800344	14.6287	5.9814	2.33041	4.67290	672.30	35968.1
215	46225	9938375	14.6629	5.9907	2.33244	4.65116	675.44	36305.0
216	46656	10077696	14.6969	6.0000	2.33445	4.62963	678.58	36643.5
217	47089	10218313	14.7309	6.0092	2.33646	4.60829	681.73	36983.6
218	47524	10360232	14.7648	6.0185	2.33846	4.58716	684.87	37325.3
219	47961	10503459	14.7986	6.0277	2.34044	4.56621	688.01	37668.5
220	48400	10648000	14.8324	6.0368	2.34242	4.54545	691.15	38013.3
221	48841	10793861	14.8661	6.0459	2.34439	4.52489	694.29	38359.6
222	49284	10941048	14.8997	6.0550	2.34635	4.50450	697.43	38707.6
223	49729	11089567	14.9332	6.0641	2.34830	4.48431	700.58	39057.1
224	50176	11239424	14.9666	6.0732	2.35025	4.46429	703.72	39408.1
225	50625	11390625	15.0000	6.0822	2.35218	4.44444	706.86	39760.8
226	51076	11543176	15.0333	6.0912	2.35411	4.42478	710.00	40115.0
227	51529	11697083	15.0665	6.1002	2.35603	4.40529	713.14	40470.8
228	51984	11852352	15.0997	6.1091	2.35793	4.38596	716.28	40828.1
229	52441	12008989	15.1327	6.1180	2.35984	4.36681	719.42	41187.1
230	52900	12167000	15.1658	6.1269	2.36173	4.34783	722.57	41547.6
231	53361	12326391	15.1987	6.1358	2.36361	4.32900	725.71	41909.6
232	53824	12487168	15.2315	6.1446	2.36549	4.31034	728.85	42273.3
233	54289	12649337	15.2643	6.1534	2.36736	4.29185	731.99	42638.5
234	54756	12812904	15.2971	6.1622	2.36922	4.27350	735.13	43005.3
235	55225	12977875	15.3297	6.1710	2.37107	4.25532	738.27	43373.6
236	55696	13144256	15.3623	6.1797	2.37291	4.23729	741.42	43743.5
237	56169	13312053	15.3948	6.1885	2.37475	4.21941	744.56	44115.0
238	56644	13481272	15.4272	6.1972	2.37658	4.20168	747.70	44488.1
239	57121	13651919	15.4596	6.2058	2.37840	4.18410	750.84	44862.7
240	57600	13824000	15.4919	6.2145	2.38021	4.16667	753.98	45238.9
241	58081	13997521	15.5242	6.2231	2.38202	4.14938	757.12	45616.7
242	58564	14172488	15.5563	6.2317	2.38382	4.13223	760.27	45996.1
243	59049	14348907	15.5885	6.2403	2.38561	4.11523	763.41	46377.0
244	59536	14526784	15.6205	6.2488	2.38739	4.09836	766.55	46759.5
245	60025	14706125	15.6525	6.2573	2.38917	4.08163	769.69	47143.5
246	60516	14886936	15.6844	6.2658	2.39094	4.06504	772.83	47529.2
247	61009	15069223	15.7162	6.2743	2.39270	4.04858	775.97	47916.4
248	61504	15252992	15.7480	6.2828	2.39445	4.03226	779.12	48305.1
249	62001	15438249	15.7797	6.2912	2.39620	4.01606	782.26	48695.5

**SQUARES, CUBES, SQUARE ROOTS, CUBE ROOTS, LOGARITHMS, RECIPROCAL,
CIRCUMFERENCES AND CIRCULAR AREAS OF NOS. FROM 1 TO 1000**

No.	Square	Cube	Sq. Root	Cu. Root	Log.	1000xRecip.	No. = Dia.	
							Circum.	Area
250	62500	15625000	15.8114	6.2996	2.39794	4.00000	785.40	49087.4
251	63001	15813251	15.8430	6.3080	2.39967	3.98406	788.54	49480.9
252	63504	16003008	15.8745	6.3164	2.40140	3.96825	791.68	49875.9
253	64009	16194277	15.9060	6.3247	2.40312	3.95257	794.82	50272.6
254	64516	16387064	15.9374	6.3330	2.40483	3.93701	797.96	50670.7
255	65025	16581375	15.9687	6.3413	2.40654	3.92157	801.11	51070.5
256	65536	16777216	16.0000	6.3496	2.40824	3.90625	804.25	51471.9
257	66049	16974593	16.0312	6.3579	2.40993	3.89105	807.39	51874.8
258	66564	17173512	16.0624	6.3661	2.41162	3.87597	810.53	52279.2
259	67081	17373979	16.0935	6.3743	2.41330	3.86100	813.67	52685.3
260	67600	17576000	16.1245	6.3825	2.41497	3.84615	816.81	53092.9
261	68121	17779581	16.1555	6.3907	2.41664	3.83142	819.96	53502.1
262	68644	17984728	16.1864	6.3988	2.41830	3.81679	823.10	53912.9
263	69169	18191447	16.2173	6.4070	2.41996	3.80228	826.24	54325.2
264	69696	18399744	16.2481	6.4151	2.42160	3.78788	829.38	54739.1
265	70225	18609625	16.2788	6.4232	2.42325	3.77358	832.52	55154.6
266	70756	18821096	16.3095	6.4312	2.42488	3.75940	835.66	55571.6
267	71289	19034163	16.3401	6.4393	2.42651	3.74532	838.81	55990.3
268	71824	19248832	16.3707	6.4473	2.42813	3.73134	841.95	56410.4
269	72361	19465109	16.4012	6.4553	2.42975	3.71747	845.09	56832.2
270	72900	19683000	16.4317	6.4633	2.43136	3.70370	848.23	57255.5
271	73441	19902511	16.4621	6.4713	2.43297	3.69004	851.37	57680.4
272	73984	20123648	16.4924	6.4792	2.43457	3.67647	854.51	58106.9
273	74529	20346417	16.5227	6.4872	2.43616	3.66300	857.66	58534.9
274	75076	20570824	16.5529	6.4951	2.43775	3.64964	860.80	58964.6
275	75625	20796875	16.5831	6.5030	2.43933	3.63636	863.94	59395.7
276	76176	21024576	16.6132	6.5108	2.44091	3.62319	867.08	59828.5
277	76729	21253933	16.6433	6.5187	2.44248	3.61011	870.22	60262.8
278	77284	21484952	16.6733	6.5265	2.44404	3.59712	873.36	60698.7
279	77841	21717639	16.7033	6.5343	2.44560	3.58423	876.50	61136.2
280	78400	21952000	16.7332	6.5421	2.44716	3.57143	879.65	61575.2
281	78961	22188041	16.7631	6.5499	2.44871	3.55872	882.79	62015.8
282	79524	22425768	16.7929	6.5577	2.45025	3.54610	885.93	62458.0
283	80089	22665187	16.8226	6.5654	2.45179	3.53357	889.07	62901.8
284	80656	22906304	16.8523	6.5731	2.45332	3.52113	892.21	63347.1
285	81225	23149125	16.8819	6.5808	2.45484	3.50877	895.35	63794.0
286	81796	23393656	16.9115	6.5885	2.45637	3.49650	898.50	64242.4
287	82369	23639903	16.9411	6.5962	2.45788	3.48432	901.64	64692.5
288	82944	23887872	16.9706	6.6039	2.45939	3.47222	904.78	65144.1
289	83521	24137569	17.0000	6.6115	2.46090	3.46021	907.92	65597.2
290	84100	24389000	17.0294	6.6191	2.46240	3.44828	911.06	66052.0
291	84681	24642171	17.0587	6.6267	2.46389	3.43643	914.20	66508.3
292	85264	24897088	17.0880	6.6343	2.46538	3.42466	917.35	66966.2
293	85849	25153757	17.1172	6.6419	2.46687	3.41297	920.49	67425.6
294	86436	25412184	17.1464	6.6494	2.46835	3.40136	923.63	67886.7
295	87025	25672375	17.1756	6.6569	2.46982	3.38983	926.77	68349.3
296	87616	25934336	17.2047	6.6644	2.47129	3.37838	929.91	68813.5
297	88209	26198073	17.2337	6.6719	2.47276	3.36700	933.05	69279.2
298	88804	26463592	17.2627	6.6794	2.47422	3.35570	936.19	69746.5
299	89401	26730899	17.2916	6.6869	2.47567	3.34448	939.34	70215.4

SQUARES, CUBES, SQUARE ROOTS, CUBE ROOTS, LOGARITHMS, RECIPROCAL, CIRCUMFERENCES AND CIRCULAR AREAS OF NOS. FROM 1 TO 1000

No.	Square	Cube	Sq. Root	Cu. Root	Log.	1000xRecip.	No. = Dia.	
							Circum.	Area
300	90000	27000000	17.3205	6.6943	2.47712	3.33333	942.48	70685.8
301	90601	27270901	17.3494	6.7018	2.47857	3.32226	945.62	71157.9
302	91204	27543608	17.3781	6.7092	2.48001	3.31126	948.76	71631.5
303	91809	27818127	17.4069	6.7166	2.48144	3.30033	951.90	72106.6
304	92416	28094464	17.4356	6.7240	2.48287	3.28947	955.04	72583.4
305	93025	28372625	17.4642	6.7313	2.48430	3.27869	958.19	73061.7
306	93636	28652616	17.4929	6.7387	2.48572	3.26797	961.33	73541.5
307	94249	28934443	17.5214	6.7460	2.48714	3.25733	964.47	74023.0
308	94864	29218112	17.5499	6.7533	2.48855	3.24675	967.61	74506.0
309	95481	29503629	17.5784	6.7606	2.48996	3.23625	970.75	74990.6
310	96100	29791000	17.6068	6.7679	2.49136	3.22581	973.89	75476.8
311	96721	30080231	17.6352	6.7752	2.49276	3.21543	977.04	75964.5
312	97344	30371328	17.6635	6.7824	2.49415	3.20513	980.18	76453.8
313	97969	30664297	17.6918	6.7897	2.49554	3.19489	983.32	76944.7
314	98596	30959144	17.7200	6.7969	2.49693	3.18471	986.46	77437.1
315	99225	31255875	17.7482	6.8041	2.49831	3.17460	989.60	77931.1
316	99856	31554496	17.7764	6.8113	2.49969	3.16456	992.74	78426.7
317	100489	31855013	17.8045	6.8185	2.50106	3.15457	995.88	78923.9
318	101124	32157432	17.8326	6.8256	2.50243	3.14465	999.03	79422.6
319	101761	32461759	17.8606	6.8328	2.50379	3.13480	1002.2	79922.9
320	102400	32768000	17.8885	6.8399	2.50515	3.12500	1005.3	80424.8
321	103041	33076161	17.9165	6.8470	2.50651	3.11527	1008.5	80928.2
322	103684	33386248	17.9444	6.8541	2.50786	3.10559	1011.6	81433.2
323	104329	33698267	17.9722	6.8612	2.50920	3.09598	1014.7	81939.8
324	104976	34012224	18.0000	6.8683	2.51055	3.08642	1017.9	82448.0
325	105625	34328125	18.0278	6.8753	2.51188	3.07692	1021.0	82957.7
326	106276	34645976	18.0555	6.8824	2.51322	3.06749	1024.2	83469.0
327	106929	34965783	18.0831	6.8894	2.51455	3.05810	1027.3	83981.8
328	107584	35287552	18.1108	6.8964	2.51587	3.04878	1030.4	84496.3
329	108241	35611289	18.1384	6.9034	2.51720	3.03951	1033.6	85012.3
330	108900	35937000	18.1659	6.9104	2.51851	3.03030	1036.7	85529.9
331	109561	36264691	18.1934	6.9174	2.51983	3.02115	1039.9	86049.0
332	110224	36594368	18.2209	6.9244	2.52114	3.01205	1043.0	86569.7
333	110889	36926037	18.2483	6.9313	2.52244	3.00300	1046.2	87092.0
334	111556	37259704	18.2757	6.9382	2.52375	2.99401	1049.3	87615.9
335	112225	37595375	18.3030	6.9451	2.52504	2.98507	1052.4	88141.3
336	112896	37933056	18.3303	6.9521	2.52634	2.97619	1055.6	88668.3
337	113569	38272753	18.3576	6.9589	2.52763	2.96736	1058.7	89196.9
338	114244	38614472	18.3848	6.9658	2.52892	2.95858	1061.9	89727.0
339	114921	38958219	18.4120	6.9727	2.53020	2.94985	1065.0	90258.7
340	115600	39304000	18.4391	6.9795	2.53148	2.94118	1068.1	90792.0
341	116281	39651821	18.4662	6.9864	2.53275	2.93255	1071.3	91326.9
342	116964	40001688	18.4932	6.9932	2.53403	2.92398	1074.4	91863.3
343	117649	40353607	18.5203	7.0000	2.53529	2.91545	1077.6	92401.3
344	118336	40707584	18.5472	7.0068	2.53656	2.90698	1080.7	92940.9
345	119025	41063625	18.5742	7.0136	2.53782	2.89855	1083.8	93482.0
346	119716	41421736	18.6011	7.0203	2.53908	2.89017	1087.0	94024.7
347	120409	41781923	18.6279	7.0271	2.54033	2.88184	1090.1	94569.0
348	121104	42144192	18.6548	7.0338	2.54158	2.87356	1093.3	95114.9
349	121801	42508549	18.6815	7.0406	2.54283	2.86533	1096.4	95662.3

**SQUARES, CUBES, SQUARE ROOTS, CUBE ROOTS, LOGARITHMS, RECIPROCAL,
CIRCUMFERENCES AND CIRCULAR AREAS OF NOS. FROM 1 TO 1000**

No.	Square	Cube	Sq. Root	Cu. Root	Log.	1000xRecip.	No. = Dia.	
							Circum.	Area
350	122500	42875000	18.7083	7.0473	2.54407	2.85714	1099.6	96211.3
351	123201	43243551	18.7350	7.0540	2.54531	2.84900	1102.7	96761.8
352	123904	43614208	18.7617	7.0607	2.54654	2.84091	1105.8	97314.0
353	124609	43986977	18.7883	7.0674	2.54777	2.83286	1109.0	97867.7
354	125316	44361864	18.8149	7.0740	2.54900	2.82486	1112.1	98423.0
355	126025	44738875	18.8414	7.0807	2.55023	2.81690	1115.3	98979.8
356	126736	45118016	18.8680	7.0873	2.55145	2.80899	1118.4	99538.2
357	127449	45499293	18.8944	7.0940	2.55267	2.80112	1121.5	100098
358	128164	45882712	18.9209	7.1006	2.55388	2.79330	1124.7	100660
359	128881	46268279	18.9473	7.1072	2.55509	2.78552	1127.8	101223
360	129600	46656000	18.9737	7.1138	2.55630	2.77778	1131.0	101788
361	130321	47045881	19.0000	7.1204	2.55751	2.77008	1134.1	102354
362	131044	47437928	19.0263	7.1269	2.55871	2.76243	1137.3	102922
363	131769	47832147	19.0526	7.1335	2.55991	2.75482	1140.4	103491
364	132496	48228544	19.0788	7.1400	2.56110	2.74725	1143.5	104062
365	133225	48627125	19.1050	7.1466	2.56229	2.73973	1146.7	104635
366	133956	49027896	19.1311	7.1531	2.56348	2.73224	1149.8	105209
367	134689	49430863	19.1572	7.1596	2.56467	2.72480	1153.0	105785
368	135424	49836032	19.1833	7.1661	2.56585	2.71739	1156.1	106362
369	136161	50243409	19.2094	7.1726	2.56703	2.71003	1159.2	106941
370	136900	50653000	19.2354	7.1791	2.56820	2.70270	1162.4	107521
371	137641	51064811	19.2614	7.1855	2.56937	2.69542	1165.5	108103
372	138384	51478848	19.2873	7.1920	2.57054	2.68817	1168.7	108687
373	139129	51895117	19.3132	7.1984	2.57171	2.68097	1171.8	109272
374	139876	52313624	19.3391	7.2048	2.57287	2.67380	1175.0	109858
375	140625	52734375	19.3649	7.2112	2.57403	2.66667	1178.1	110447
376	141376	53157376	19.3907	7.2177	2.57519	2.65957	1181.2	111036
377	142129	53582633	19.4165	7.2240	2.57634	2.65252	1184.4	111628
378	142884	54010152	19.4422	7.2304	2.57749	2.64550	1187.5	112221
379	143641	54439939	19.4679	7.2368	2.57864	2.63852	1190.7	112815
380	144400	54872000	19.4936	7.2432	2.57978	2.63158	1193.8	113411
381	145161	55306341	19.5192	7.2495	2.58093	2.62467	1196.9	114009
382	145924	55742968	19.5448	7.2558	2.58206	2.61780	1200.1	114608
383	146689	56181887	19.5704	7.2622	2.58320	2.61097	1203.2	115209
384	147456	56623104	19.5959	7.2685	2.58433	2.60417	1206.4	115812
385	148225	57066625	19.6214	7.2748	2.58546	2.59740	1209.5	116416
386	148996	57512456	19.6469	7.2811	2.58659	2.59067	1212.7	117021
387	149769	57960608	19.6723	7.2874	2.58771	2.58398	1215.8	117628
388	150544	58411072	19.6977	7.2936	2.58883	2.57732	1218.9	118237
389	151321	58863869	19.7231	7.2999	2.58995	2.57069	1222.1	118847
390	152100	59319000	19.7484	7.3061	2.59106	2.56410	1225.2	119459
391	152881	59776471	19.7737	7.3124	2.59218	2.55755	1228.4	120072
392	153664	60236288	19.7990	7.3186	2.59329	2.55102	1231.5	120687
393	154449	60698457	19.8242	7.3248	2.59439	2.54453	1234.6	121304
394	155236	61162984	19.8494	7.3310	2.59550	2.53807	1237.8	121922
395	156025	61629875	19.8746	7.3372	2.59660	2.53165	1240.9	122542
396	156816	62099136	19.8997	7.3434	2.59770	2.52525	1244.1	123163
397	157609	62570773	19.9249	7.3496	2.59879	2.51889	1247.2	123786
398	158404	63044792	19.9499	7.3558	2.59988	2.51256	1250.4	124410
399	159201	63521199	19.9750	7.3619	2.60097	2.50627	1253.5	125036

**SQUARES, CUBES, SQUARE ROOTS, CUBE ROOTS, LOGARITHMS, RECIPROCALs,
CIRCUMFERENCES AND CIRCULAR AREAS OF NOS. FROM 1 TO 1000**

No.	Square	Cube	Sq. Root	Cu. Root	Log.	1000xRecip.	No. = Dia.	
							Circum.	Area
400	160000	64000000	20.0000	7.3681	2.60206	2.50000	1256.6	125664
401	160801	64481201	20.0250	7.3742	2.60314	2.49877	1259.8	126293
402	161604	64964808	20.0499	7.3803	2.60423	2.48756	1262.9	126923
403	162409	65450827	20.0749	7.3864	2.60531	2.48139	1266.1	127556
404	163216	65939264	20.0998	7.3925	2.60638	2.47525	1269.2	128190
405	164025	66430125	20.1246	7.3986	2.60746	2.46914	1272.3	128825
406	164836	66923416	20.1494	7.4047	2.60853	2.46305	1275.5	129462
407	165649	67419143	20.1742	7.4108	2.60959	2.45700	1278.6	130100
408	166464	67917312	20.1990	7.4169	2.61066	2.45098	1281.8	130741
409	167281	68417929	20.2237	7.4229	2.61172	2.44499	1284.9	131382
410	168100	68921000	20.2485	7.4290	2.61278	2.43902	1288.1	132025
411	168921	69426531	20.2731	7.4350	2.61384	2.43309	1291.2	132670
412	169744	69934528	20.2978	7.4410	2.61490	2.42718	1294.3	133317
413	170569	70444997	20.3224	7.4470	2.61595	2.42131	1297.5	133965
414	171396	70957944	20.3470	7.4530	2.61700	2.41546	1300.6	134614
415	172225	71473375	20.3715	7.4590	2.61805	2.40964	1303.8	135265
416	173056	71991296	20.3961	7.4650	2.61909	2.40385	1306.9	135918
417	173889	72511713	20.4206	7.4710	2.62014	2.39808	1310.0	136572
418	174724	73034632	20.4450	7.4770	2.62118	2.39234	1313.2	137228
419	175561	73560059	20.4695	7.4829	2.62221	2.38664	1316.3	137885
420	176400	74088000	20.4939	7.4889	2.62325	2.38095	1319.5	138544
421	177241	74618461	20.5183	7.4948	2.62428	2.37530	1322.6	139205
422	178084	75151448	20.5426	7.5007	2.62531	2.36967	1325.8	139867
423	178929	75686967	20.5670	7.5067	2.62634	2.36407	1328.9	140531
424	179776	76225024	20.5913	7.5126	2.62737	2.35849	1332.0	141196
425	180625	76765625	20.6155	7.5185	2.62839	2.35294	1335.2	141863
426	181476	77308776	20.6398	7.5244	2.62941	2.34742	1338.3	142531
427	182329	77854483	20.6640	7.5302	2.63043	2.34192	1341.5	143201
428	183184	78402752	20.6882	7.5361	2.63144	2.33645	1344.6	143872
429	184041	78953589	20.7123	7.5420	2.63246	2.33100	1347.7	144545
430	184900	79507000	20.7364	7.5478	2.63347	2.32558	1350.9	145220
431	185761	80062991	20.7605	7.5537	2.63448	2.32019	1354.0	145896
432	186624	80621568	20.7846	7.5595	2.63548	2.31482	1357.2	146574
433	187489	81182737	20.8087	7.5654	2.63649	2.30947	1360.3	147254
434	188356	81746504	20.8327	7.5712	2.63749	2.30415	1363.5	147934
435	189225	82312875	20.8567	7.5770	2.63849	2.29885	1366.6	148617
436	190096	82881856	20.8806	7.5828	2.63949	2.29358	1369.7	149301
437	190969	83453453	20.9045	7.5886	2.64048	2.28833	1372.9	149987
438	191844	84027672	20.9284	7.5944	2.64147	2.28311	1376.0	150674
439	192721	84604519	20.9523	7.6001	2.64246	2.27790	1379.2	151363
440	193600	85184000	20.9762	7.6059	2.64345	2.27273	1382.3	152053
441	194481	85766121	21.0000	7.6117	2.64444	2.26757	1385.4	152745
442	195364	86350888	21.0238	7.6174	2.64542	2.26244	1388.6	153439
443	196249	86938307	21.0476	7.6232	2.64640	2.25734	1391.7	154134
444	197136	87528384	21.0713	7.6289	2.64738	2.25225	1394.9	154830
445	198025	88121125	21.0950	7.6346	2.64836	2.24719	1398.0	155528
446	198916	88716536	21.1187	7.6403	2.64933	2.24215	1401.2	156228
447	199809	89314623	21.1424	7.6460	2.65031	2.23714	1404.3	156930
448	200704	89915392	21.1660	7.6517	2.65128	2.23214	1407.4	157633
449	201601	90518849	21.1896	7.6574	2.65225	2.22717	1410.6	158337

**SQUARES, CUBES, SQUARE ROOTS, CUBE ROOTS, LOGARITHMS, RECIPROCAL,
CIRCUMFERENCES AND CIRCULAR AREAS OF NOS. FROM 1 TO 1000**

No.	Square	Cube	Sq. Root	Cu. Root	Log.	1000×Recip.	No. = Dia.	
							Circum.	Area
450	202500	91125000	21.2132	7.6631	2.65321	2.22222	1413.7	159043
451	203401	91733851	21.2368	7.6688	2.65418	2.21730	1416.9	159751
452	204304	92345408	21.2603	7.6744	2.65514	2.21239	1420.0	160460
453	205209	92959677	21.2838	7.6801	2.65610	2.20751	1423.1	161171
454	206116	93576664	21.3073	7.6857	2.65706	2.20264	1426.3	161883
455	207025	94196375	21.3307	7.6914	2.65801	2.19780	1429.4	162597
456	207936	94818816	21.3542	7.6970	2.65896	2.19298	1432.6	163313
457	208849	95443993	21.3776	7.7026	2.65992	2.18818	1435.7	164030
458	209764	96071912	21.4009	7.7082	2.66087	2.18341	1438.9	164748
459	210681	96702579	21.4243	7.7138	2.66181	2.17865	1442.0	165468
460	211600	97336000	21.4476	7.7194	2.66276	2.17391	1445.1	166190
461	212521	97972181	21.4709	7.7250	2.66370	2.16920	1448.3	166914
462	213444	98611128	21.4942	7.7306	2.66464	2.16450	1451.4	167639
463	214369	99252847	21.5174	7.7362	2.66558	2.15983	1454.6	168365
464	215296	99897344	21.5407	7.7418	2.66652	2.15517	1457.7	169093
465	216225	100544625	21.5639	7.7473	2.66745	2.15054	1460.8	169823
466	217156	101194696	21.5870	7.7529	2.66839	2.14592	1464.0	170554
467	218089	101847563	21.6102	7.7584	2.66932	2.14133	1467.1	171287
468	219024	102503232	21.6333	7.7639	2.67025	2.13675	1470.3	172021
469	219961	103161709	21.6564	7.7695	2.67117	2.13220	1473.4	172757
470	220900	103823000	21.6795	7.7750	2.67210	2.12766	1476.5	173494
471	221841	104487111	21.7025	7.7805	2.67302	2.12314	1479.7	174234
472	222784	105154048	21.7256	7.7860	2.67394	2.11864	1482.8	174974
473	223729	105823817	21.7486	7.7915	2.67486	2.11417	1486.0	175716
474	224676	106496424	21.7715	7.7970	2.67578	2.10971	1489.1	176460
475	225625	107171875	21.7945	7.8025	2.67669	2.10526	1492.3	177205
476	226576	107850176	21.8174	7.8079	2.67761	2.10084	1495.4	177952
477	227529	108531333	21.8403	7.8134	2.67852	2.09644	1498.5	178701
478	228484	109215352	21.8632	7.8188	2.67943	2.09205	1501.7	179451
479	229441	109902239	21.8861	7.8243	2.68034	2.08768	1504.8	180203
480	230400	110592000	21.9089	7.8297	2.68124	2.08333	1508.0	180956
481	231361	111284641	21.9317	7.8352	2.68215	2.07900	1511.1	181711
482	232324	111980168	21.9545	7.8406	2.68305	2.07469	1514.3	182467
483	233289	112678587	21.9773	7.8460	2.68395	2.07039	1517.4	183225
484	234256	113379904	22.0000	7.8514	2.68485	2.06612	1520.5	183984
485	235225	114084125	22.0227	7.8568	2.68574	2.06186	1523.7	184745
486	236196	114791256	22.0454	7.8622	2.68664	2.05761	1526.8	185508
487	237169	115501303	22.0681	7.8676	2.68753	2.05339	1530.0	186272
488	238144	116214272	22.0907	7.8730	2.68842	2.04918	1533.1	187038
489	239121	116930169	22.1133	7.8784	2.68931	2.04499	1536.2	187805
490	240100	117649000	22.1359	7.8837	2.69020	2.04082	1539.4	188574
491	241081	118370771	22.1585	7.8891	2.69108	2.03666	1542.5	189345
492	242064	119095488	22.1811	7.8944	2.69197	2.03252	1545.7	190117
493	243049	119823157	22.2036	7.8998	2.69285	2.02840	1548.8	190890
494	244036	120553784	22.2261	7.9051	2.69373	2.02429	1551.9	191665
495	245025	121287375	22.2486	7.9105	2.69461	2.02020	1555.1	192442
496	246016	122023936	22.2711	7.9158	2.69548	2.01613	1558.2	193221
497	247009	122763473	22.2935	7.9211	2.69636	2.01207	1561.4	194000
498	248004	123505992	22.3159	7.9264	2.69723	2.00803	1564.5	194782
499	249001	124251499	22.3383	7.9317	2.69810	2.00401	1567.7	195565

SQUARES, CUBES, SQUARE ROOTS, CUBE ROOTS, LOGARITHMS, RECIPROCAL,
CIRCUMFERENCES AND CIRCULAR AREAS OF NOS. FROM 1 TO 1000

No.	Square	Cube	Sq. Root	Cu. Root	Log.	1000xRecip.	No. = Dia.	
							Circum.	Area
500	250000	125000000	22.3607	7.9370	2.69897	2.00000	1570.8	196350
501	251001	125751501	22.3830	7.9423	2.69984	1.99601	1573.9	197136
502	252004	126506008	22.4054	7.9476	2.70070	1.99203	1577.1	197923
503	253009	127263527	22.4277	7.9528	2.70157	1.98807	1580.2	198713
504	254016	128024064	22.4499	7.9581	2.70243	1.98413	1583.4	199504
505	255025	128787625	22.4722	7.9634	2.70329	1.98020	1586.5	200296
506	256036	129554216	22.4944	7.9686	2.70415	1.97629	1589.7	201090
507	257049	130323843	22.5167	7.9739	2.70501	1.97239	1592.8	201886
508	258064	131096512	22.5389	7.9791	2.70586	1.96850	1595.9	202683
509	259081	131872229	22.5610	7.9843	2.70672	1.96464	1599.1	202482
510	260100	132651000	22.5832	7.9896	2.70757	1.96078	1602.2	204282
511	261121	133432831	22.6053	7.9948	2.70842	1.95695	1605.4	205084
512	262144	134217728	22.6274	8.0000	2.70927	1.95312	1608.5	205887
513	263169	135005697	22.6495	8.0052	2.71012	1.94932	1611.6	206692
514	264196	135796744	22.6716	8.0104	2.71096	1.94553	1614.8	207499
515	265225	136590875	22.6936	8.0156	2.71181	1.94175	1617.9	208307
516	266256	137388096	22.7156	8.0208	2.71265	1.93798	1621.1	209117
517	267289	138188413	22.7376	8.0260	2.71349	1.93424	1624.2	209928
518	268324	138991832	22.7596	8.0311	2.71433	1.93050	1627.3	210741
519	269361	139798359	22.7816	8.0363	2.71517	1.92678	1630.5	211556
520	270400	140608000	22.8035	8.0415	2.71600	1.92308	1633.6	212372
521	271441	141420761	22.8254	8.0466	2.71684	1.91939	1636.8	213189
522	272484	142236648	22.8473	8.0517	2.71767	1.91571	1639.9	214008
523	273529	143055667	22.8692	8.0569	2.71850	1.91205	1643.1	214829
524	274576	143877824	22.8910	8.0620	2.71933	1.90840	1646.2	215651
525	275625	144703125	22.9129	8.0671	2.72016	1.90476	1649.3	216475
526	276676	145531576	22.9347	8.0723	2.72099	1.90114	1652.5	217301
527	277729	146363183	22.9565	8.0774	2.72181	1.89753	1655.6	218128
528	278784	147197952	22.9783	8.0825	2.72263	1.89394	1658.8	218956
529	279841	148035889	23.0000	8.0876	2.72346	1.89036	1661.9	219787
530	280900	148877000	23.0217	8.0927	2.72428	1.88679	1665.0	220618
531	281961	149721291	23.0434	8.0978	2.72509	1.88324	1668.2	221452
532	283024	150568768	23.0651	8.1028	2.72591	1.87970	1671.3	222287
533	284089	151419437	23.0868	8.1079	2.72673	1.87617	1674.5	223123
534	285156	152273304	23.1084	8.1130	2.72754	1.87266	1677.6	223961
535	286225	153130375	23.1301	8.1180	2.72835	1.86916	1680.8	224801
536	287296	153990656	23.1517	8.1231	2.72916	1.86567	1683.9	225642
537	288369	154854153	23.1733	8.1281	2.72997	1.86220	1687.0	226484
538	289444	155720872	23.1948	8.1332	2.73078	1.85874	1690.2	227329
539	290521	156590819	23.2164	8.1382	2.73159	1.85529	1693.3	228175
540	291600	157464000	23.2379	8.1433	2.73239	1.85185	1696.5	229022
541	292681	158340421	23.2594	8.1483	2.73320	1.84843	1699.6	229871
542	293764	159220088	23.2809	8.1533	2.73400	1.84502	1702.7	230722
543	294849	160103007	23.3024	8.1583	2.73480	1.84162	1705.9	231574
544	295936	160989184	23.3238	8.1633	2.73560	1.83824	1709.0	232428
545	297025	161878625	23.3452	8.1683	2.73640	1.83486	1712.2	233283
546	298116	162771336	23.3666	8.1733	2.73719	1.83150	1715.3	234140
547	299209	163667323	23.3880	8.1783	2.73799	1.82815	1718.5	234998
548	300304	164566592	23.4094	8.1833	2.73878	1.82482	1721.6	235858
549	301401	165469149	23.4307	8.1882	2.73957	1.82149	1724.7	236720

**SQUARES, CUBES, SQUARE ROOTS, CUBE ROOTS, LOGARITHMS, RECIPROCALs,
CIRCUMFERENCES AND CIRCULAR AREAS OF NOS. FROM 1 TO 1000**

No.	Square	Cube	Sq. Root	Cu. Root	Log.	1000xRecip.	No. = Dia.	
							Circum.	Area
550	302500	166375000	23.4521	8.1932	2.74036	1.81818	1727.9	237533
551	303601	167284151	23.4734	8.1982	2.74115	1.81488	1731.0	238448
552	304704	168196608	23.4947	8.2031	2.74194	1.81159	1734.2	239314
553	305809	169112377	23.5160	8.2081	2.74273	1.80832	1737.3	240182
554	306916	170031464	23.5372	8.2130	2.74351	1.80505	1740.4	241051
555	308025	170953875	23.5584	8.2180	2.74429	1.80180	1743.6	241922
556	309136	171879616	23.5797	8.2229	2.74507	1.79856	1746.7	242795
557	310249	172808693	23.6008	8.2278	2.74586	1.79533	1749.9	243669
558	311364	173741112	23.6220	8.2327	2.74663	1.79211	1753.0	244545
559	312481	174676879	23.6432	8.2377	2.74741	1.78891	1756.2	245422
560	313600	175616000	23.6643	8.2426	2.74819	1.78571	1759.3	246301
561	314721	176558481	23.6854	8.2475	2.74896	1.78253	1762.4	247181
562	315844	177503238	23.7065	8.2524	2.74974	1.77936	1765.6	248063
563	316969	178453547	23.7276	8.2573	2.75051	1.77620	1768.7	248947
564	318096	179406144	23.7487	8.2621	2.75128	1.77305	1771.9	249832
565	319225	180362125	23.7697	8.2670	2.75205	1.76991	1775.0	250719
566	320356	181321496	23.7908	8.2719	2.75282	1.76678	1778.1	251607
567	321489	182284263	23.8118	8.2768	2.75358	1.76367	1781.3	252497
568	322624	183250432	23.8328	8.2816	2.75435	1.76056	1784.4	253388
569	323761	184220009	23.8537	8.2865	2.75511	1.75747	1787.6	254281
570	324900	185198000	23.8747	8.2913	2.75587	1.75439	1790.7	255176
571	326041	186169411	23.8956	8.2962	2.75664	1.75131	1793.9	256072
572	327184	187149248	23.9165	8.3010	2.75740	1.74825	1797.0	256970
573	328329	188132517	23.9374	8.3059	2.75815	1.74520	1800.1	257869
574	329476	189119224	23.9583	8.3107	2.75891	1.74216	1803.3	258770
575	330625	190109375	23.9792	8.3155	2.75967	1.73913	1806.4	259672
576	331776	191102976	24.0000	8.3203	2.76042	1.73611	1809.6	260576
577	332929	192100033	24.0208	8.3251	2.76118	1.73310	1812.7	261482
578	334084	193100552	24.0416	8.3300	2.76193	1.73010	1815.8	262389
579	335241	194104539	24.0624	8.3348	2.76268	1.72712	1819.0	263298
580	336400	195112000	24.0832	8.3396	2.76343	1.72414	1822.1	264208
581	337561	196122941	24.1039	8.3443	2.76418	1.72117	1825.3	265120
582	338724	197137368	24.1247	8.3491	2.76492	1.71821	1828.4	266033
583	339889	198155287	24.1454	8.3539	2.76567	1.71527	1831.6	266948
584	341056	199176704	24.1661	8.3587	2.76641	1.71233	1834.7	267865
585	342225	200201625	24.1868	8.3634	2.76716	1.70940	1837.8	268783
586	343396	201230056	24.2074	8.3682	2.76790	1.70649	1841.0	269701
587	344569	202262003	24.2281	8.3730	2.76864	1.70358	1844.1	270624
588	345744	203297472	24.2487	8.3777	2.76938	1.70068	1847.3	271547
589	346921	204336469	24.2693	8.3825	2.77012	1.69779	1850.4	272471
590	348100	205379000	24.2899	8.3872	2.77085	1.69492	1853.5	273397
591	349281	206425071	24.3105	8.3919	2.77159	1.69205	1856.7	274325
592	350464	207474688	24.3311	8.3967	2.77232	1.68919	1859.8	275254
593	351649	208527857	24.3516	8.4014	2.77305	1.68634	1863.0	276184
594	352836	209584584	24.3721	8.4061	2.77379	1.68350	1866.1	277117
595	354025	210644875	24.3926	8.4108	2.77452	1.68067	1869.3	278051
596	355216	211708736	24.4131	8.4155	2.77525	1.67785	1872.4	278986
597	356409	212776173	24.4336	8.4202	2.77597	1.67504	1875.5	279923
598	357604	213847192	24.4540	8.4249	2.77670	1.67224	1878.7	280862
599	358801	214921799	24.4745	8.4296	2.77743	1.66945	1881.8	281802

**SQUARES, CUBES, SQUARE ROOTS, CUBE ROOTS, LOGARITHMS, RECIPROCALs,
CIRCUMFERENCES AND CIRCULAR AREAS OF NOS. FROM 1 TO 1000**

No.	Square	Cube	Sq. Root	Cu. Root	Log.	1000xRecip.	No. = Dia.	
							Circum.	Area
600	360000	216000000	24.4949	8.4343	2.77815	1.66667	1885.0	282743
601	361201	217081801	24.5153	8.4390	2.77887	1.66389	1888.1	283687
602	362404	218167208	24.5357	8.4437	2.77960	1.66113	1891.2	284631
603	363609	219256227	24.5561	8.4484	2.78032	1.65837	1894.4	285578
604	364816	220348864	24.5764	8.4530	2.78104	1.65563	1897.5	286526
605	366025	221445125	24.5967	8.4577	2.78176	1.65289	1900.7	287475
606	367236	222545016	24.6171	8.4623	2.78247	1.65017	1903.8	288426
607	368449	223648543	24.6374	8.4670	2.78319	1.64745	1907.0	289379
608	369664	224755712	24.6577	8.4716	2.78390	1.64474	1910.1	290333
609	370881	225866529	24.6779	8.4763	2.78462	1.64204	1913.2	291289
610	372100	226981000	24.6982	8.4809	2.78533	1.63934	1916.4	292247
611	373321	228099131	24.7184	8.4856	2.78604	1.63666	1919.5	293206
612	374544	229220928	24.7386	8.4902	2.78675	1.63399	1922.7	294166
613	375769	230346397	24.7588	8.4948	2.78746	1.63132	1925.8	295128
614	376996	231475544	24.7790	8.4994	2.78817	1.62866	1928.9	296092
615	378225	232608375	24.7992	8.5040	2.78888	1.62602	1932.1	297057
616	379456	233744896	24.8193	8.5086	2.78958	1.62338	1935.2	298024
617	380689	234885113	24.8395	8.5132	2.79029	1.62075	1938.4	298992
618	381924	236029032	24.8596	8.5178	2.79099	1.61812	1941.5	299962
619	383161	237176659	24.8797	8.5224	2.79169	1.61551	1944.7	300934
620	384400	238328000	24.8998	8.5270	2.79239	1.61290	1947.8	301907
621	385641	239483061	24.9199	8.5316	2.79309	1.61031	1950.9	302882
622	386884	240641848	24.9399	8.5362	2.79379	1.60772	1954.1	303858
623	388129	241804367	24.9600	8.5408	2.79449	1.60514	1957.2	304836
624	389376	242970624	24.9800	8.5453	2.79518	1.60256	1960.4	305815
625	390625	244140625	25.0000	8.5499	2.79588	1.60000	1963.5	306796
626	391876	245314376	25.0200	8.5544	2.79657	1.59744	1966.6	307779
627	393129	246491883	25.0400	8.5590	2.79727	1.59490	1969.8	308763
628	394384	247673152	25.0599	8.5635	2.79796	1.59236	1972.9	309748
629	395641	248858189	25.0799	8.5681	2.79865	1.58983	1976.1	310736
630	396900	250047000	25.0998	8.5726	2.79934	1.58730	1979.2	311725
631	398161	251239591	25.1197	8.5772	2.80003	1.58479	1982.4	312715
632	399424	252435968	25.1396	8.5817	2.80072	1.58228	1985.5	313707
633	400689	253636137	25.1595	8.5862	2.80140	1.57978	1988.6	314700
634	401956	254840104	25.1794	8.5907	2.80209	1.57729	1991.8	315696
635	403225	256047875	25.1992	8.5952	2.80277	1.57480	1994.9	316692
636	404496	257259456	25.2190	8.5997	2.80346	1.57233	1998.1	317690
637	405769	258474853	25.2389	8.6043	2.80414	1.56986	2001.2	318690
638	407044	259694072	25.2587	8.6088	2.80482	1.56740	2004.3	319692
639	408321	260917119	25.2784	8.6132	2.80550	1.56495	2007.5	320695
640	409600	262144000	25.2982	8.6177	2.80618	1.56250	2010.6	321699
641	410881	263374721	25.3180	8.6222	2.80686	1.56006	2013.8	322705
642	412164	264609288	25.3377	8.6267	2.80754	1.55763	2016.9	323713
643	413449	265849707	25.3574	8.6312	2.80821	1.55521	2020.0	324722
644	414736	267089984	25.3772	8.6357	2.80889	1.55280	2023.2	325733
645	416025	268336125	25.3969	8.6401	2.80956	1.55039	2026.3	326745
646	417316	269586136	25.4165	8.6446	2.81023	1.54799	2029.5	327759
647	418609	270840023	25.4362	8.6490	2.81090	1.54560	2032.6	328775
648	419904	272097792	25.4558	8.6535	2.81158	1.54321	2035.8	329792
649	421201	273359449	25.4755	8.6579	2.81224	1.54083	2038.9	330810

**SQUARES, CUBES, SQUARE ROOTS, CUBE ROOTS, LOGARITHMS, RECIPROALS
CIRCUMFERENCES AND CIRCULAR AREAS OF NOS. FROM 1 TO 1000**

No.	Square	Cube	Sq. Root	Cu. Root	Log.	1000xRecip.	No. = Dia.	
							Circum.	Area
650	422500	274625000	25.4951	8.6624	2.81291	1.53846	2042.0	331881
651	423801	275894451	25.5147	8.6668	2.81358	1.53610	2045.2	332853
652	425104	277167808	25.5343	8.6713	2.81425	1.53374	2048.3	333876
653	426409	278445077	25.5539	8.6757	2.81491	1.53139	2051.5	334901
654	427716	279726264	25.5734	8.6801	2.81558	1.52905	2054.6	335927
655	429025	281011375	25.5930	8.6845	2.81624	1.52672	2057.7	336955
656	430336	282300416	25.6125	8.6890	2.81690	1.52439	2060.9	337985
657	431649	283593393	25.6320	8.6934	2.81757	1.52207	2064.0	339016
658	432964	284890312	25.6515	8.6978	2.81823	1.51976	2067.2	340049
659	434281	286191179	25.6710	8.7022	2.81889	1.51745	2070.3	341084
660	435600	287496000	25.6905	8.7066	2.81954	1.51515	2073.5	342119
661	436921	288804781	25.7099	8.7110	2.82020	1.51286	2076.6	343157
662	438244	290117528	25.7294	8.7154	2.82086	1.51057	2079.7	344196
663	439569	291434247	25.7488	8.7198	2.82151	1.50830	2082.9	345237
664	440896	292754944	25.7682	8.7241	2.82217	1.50602	2086.0	346279
665	442225	294079625	25.7876	8.7285	2.82282	1.50376	2089.2	347323
666	443556	295408206	25.8070	8.7329	2.82347	1.50150	2092.3	348368
667	444889	296740963	25.8263	8.7373	2.82413	1.49925	2095.4	349415
668	446224	298077632	25.8457	8.7416	2.82478	1.49701	2098.6	350464
669	447561	299418309	25.8650	8.7460	2.82543	1.49477	2101.7	351514
670	448900	300763000	25.8844	8.7503	2.82607	1.49254	2104.9	352565
671	450241	302111711	25.9037	8.7547	2.82672	1.49031	2108.0	353618
672	451584	303464448	25.9230	8.7590	2.82737	1.48810	2111.2	354673
673	452929	304821217	25.9422	8.7634	2.82802	1.48588	2114.3	355730
674	454276	306182024	25.9615	8.7677	2.82866	1.48368	2117.4	356788
675	455625	307546875	25.9808	8.7721	2.82930	1.48148	2120.6	357847
676	456976	308915776	26.0000	8.7764	2.82995	1.47929	2123.7	358908
677	458329	310288733	26.0192	8.7807	2.83059	1.47711	2126.9	359971
678	459684	311665752	26.0384	8.7850	2.83123	1.47493	2130.0	361035
679	461041	313046839	26.0576	8.7893	2.83187	1.47275	2133.1	362101
680	462400	314432000	26.0768	8.7937	2.83251	1.47059	2136.3	363168
681	463761	315821241	26.0960	8.7980	2.83315	1.46843	2139.4	364237
682	465124	317214568	26.1151	8.8023	2.83378	1.46628	2142.6	365308
683	466489	318611987	26.1343	8.8066	2.83442	1.46413	2145.7	366380
684	467856	320013504	26.1534	8.8109	2.83506	1.46199	2148.9	367453
685	469225	321419125	26.1725	8.8152	2.83569	1.45985	2152.0	368528
686	470596	322828856	26.1916	8.8194	2.83632	1.45773	2155.1	369605
687	471969	324242703	26.2107	8.8237	2.83696	1.45560	2158.3	370684
688	473344	325660672	26.2298	8.8280	2.83759	1.45349	2161.4	371764
689	474721	327082769	26.2488	8.8323	2.83822	1.45138	2164.6	372845
690	476100	328509000	26.2679	8.8366	2.83885	1.44928	2167.7	373928
691	477481	329939371	26.2869	8.8408	2.83948	1.44718	2170.8	375013
692	478864	331373888	26.3059	8.8451	2.84011	1.44509	2174.0	376099
693	480249	332812557	26.3249	8.8493	2.84073	1.44300	2177.1	377187
694	481636	334255384	26.3439	8.8536	2.84136	1.44092	2180.3	378276
695	483025	335702375	26.3629	8.8578	2.84198	1.43885	2183.4	379367
696	484416	337153536	26.3818	8.8621	2.84261	1.43678	2186.6	380459
697	485809	338608873	26.4008	8.8663	2.84323	1.43472	2189.7	381554
698	487204	340068392	26.4197	8.8706	2.84386	1.43267	2192.8	382649
699	488601	341532099	26.4386	8.8748	2.84448	1.43062	2196.0	383746

**SQUARES, CUBES, SQUARE ROOTS, CUBE ROOTS, LOGARITHMS, RECIPROCALs,
CIRCUMFERENCES AND CIRCULAR AREAS OF NOS. FROM 1 TO 1000**

No.	Square	Cube	Sq. Root	Cu. Root	Log.	1000xRecip.	No. = Dia.	
							Circum.	Area
700	490000	343000000	26.4575	8.8790	2.84510	1.42857	2199.1	384845
701	491401	344472101	26.4764	8.8833	2.84572	1.42653	2202.3	385945
702	492804	345948408	26.4953	8.8875	2.84634	1.42450	2205.4	387047
703	494209	347428927	26.5141	8.8917	2.84696	1.42248	2208.5	388151
704	495616	348913664	26.5330	8.8959	2.84757	1.42046	2211.7	389256
705	497025	350402625	26.5518	8.9001	2.84819	1.41844	2214.8	390363
706	498436	351895816	26.5707	8.9043	2.84880	1.41643	2218.0	391471
707	499849	353393243	26.5895	8.9085	2.84942	1.41443	2221.1	392580
708	501264	354894912	26.6083	8.9127	2.85003	1.41243	2224.3	393692
709	502681	356400829	26.6271	8.9169	2.85065	1.41044	2227.4	394805
710	504100	357911000	26.6458	8.9211	2.85126	1.40845	2230.5	395919
711	505521	359425431	26.6646	8.9253	2.85187	1.40647	2233.7	397035
712	506944	360944128	26.6833	8.9295	2.85248	1.40449	2236.8	398153
713	508369	362467097	26.7021	8.9337	2.85309	1.40253	2240.0	399272
714	509796	363994344	26.7208	8.9378	2.85370	1.40056	2243.1	400393
715	511225	365525875	26.7395	8.9420	2.85431	1.39860	2246.2	401515
716	512656	367061696	26.7582	8.9462	2.85491	1.39665	2249.4	402639
717	514089	368601813	26.7769	8.9503	2.85552	1.39470	2252.5	403765
718	515524	370146232	26.7955	8.9545	2.85612	1.39276	2255.7	404892
719	516961	371694959	26.8142	8.9587	2.85673	1.39082	2258.8	406020
720	518400	373248000	26.8328	8.9628	2.85733	1.38889	2261.9	407150
721	519841	374805361	26.8514	8.9670	2.85794	1.38696	2265.1	408282
722	521284	376367048	26.8701	8.9711	2.85854	1.38504	2268.2	409416
723	522729	377933067	26.8887	8.9752	2.85914	1.38313	2271.4	410550
724	524176	379503424	26.9072	8.9794	2.85974	1.38122	2274.5	411687
725	525625	381078125	26.9258	8.9835	2.86034	1.37931	2277.7	412825
726	527076	382657176	26.9444	8.9876	2.86094	1.37741	2280.8	413965
727	528529	384240583	26.9629	8.9918	2.86153	1.37552	2283.9	415106
728	529984	385828852	26.9815	8.9959	2.86213	1.37363	2287.1	416248
729	531441	387420489	27.0000	9.0000	2.86273	1.37174	2290.2	417393
730	532900	389017000	27.0185	9.0041	2.86332	1.36986	2293.4	418539
731	534361	390617891	27.0370	9.0082	2.86392	1.36799	2296.5	419686
732	535824	392223168	27.0555	9.0123	2.86451	1.36612	2299.7	420835
733	537289	393832837	27.0740	9.0164	2.86510	1.36426	2302.8	421986
734	538756	395446904	27.0924	9.0205	2.86570	1.36240	2305.9	423138
735	540225	397065375	27.1109	9.0246	2.86629	1.36054	2309.1	424293
736	541696	398688256	27.1293	9.0287	2.86688	1.35870	2312.2	425448
737	543169	400315553	27.1477	9.0328	2.86747	1.35685	2315.4	426604
738	544644	401947272	27.1662	9.0369	2.86806	1.35501	2318.5	427762
739	546121	403583419	27.1846	9.0410	2.86864	1.35318	2321.6	428922
740	547600	405224000	27.2029	9.0450	2.86923	1.35135	2324.8	430084
741	549081	406869021	27.2213	9.0491	2.86982	1.34953	2327.9	431247
742	550564	408518488	27.2397	9.0532	2.87040	1.34771	2331.1	432412
743	552049	410172407	27.2580	9.0572	2.87099	1.34590	2334.2	433578
744	553536	411830784	27.2764	9.0613	2.87157	1.34409	2337.3	434746
745	555025	413493625	27.2947	9.0654	2.87216	1.34228	2340.5	435916
746	556516	415160936	27.3130	9.0694	2.87274	1.34048	2343.6	437087
747	558009	416832723	27.3313	9.0735	2.87332	1.33869	2346.8	438259
748	559504	418508992	27.3496	9.0775	2.87390	1.33690	2349.9	439433
749	561001	420189749	27.3679	9.0816	2.87448	1.33511	2353.1	440609

**SQUARES, CUBES, SQUARE ROOTS, CUBE ROOTS, LOGARITHMS, RECIPROCALs,
CIRCUMFERENCES AND CIRCULAR AREAS OF NOS. FROM 1 TO 1000**

No.	Square	Cube	Sq. Root	Cu. Root	Log.	1000xRecip.	No. = Dia.	
							Circum.	Area
750	562500	421875000	27.3861	9.0856	2.87506	1.33333	2356.2	441786
751	564001	423564751	27.4044	9.0896	2.87564	1.33156	2359.3	442965
752	565504	425259008	27.4226	9.0937	2.87622	1.32979	2362.5	444146
753	567009	426957777	27.4408	9.0977	2.87680	1.32802	2365.6	445328
754	568516	428661064	27.4591	9.1017	2.87737	1.32626	2368.8	446511
755	570025	430368875	27.4773	9.1057	2.87795	1.32450	2371.9	447697
756	571536	432081216	27.4955	9.1098	2.87852	1.32275	2375.0	448883
757	573049	433798093	27.5136	9.1138	2.87910	1.32100	2378.2	450072
758	574564	435519512	27.5318	9.1178	2.87967	1.31926	2381.3	451262
759	576081	437245479	27.5500	9.1218	2.88024	1.31752	2384.5	452453
760	577600	438976000	27.5681	9.1258	2.88081	1.31579	2387.6	453646
761	579121	440711081	27.5862	9.1298	2.88138	1.31406	2390.8	454841
762	580644	442450728	27.6043	9.1338	2.88196	1.31234	2393.9	456037
763	582169	444194947	27.6225	9.1378	2.88252	1.31062	2397.0	457234
764	583696	445943744	27.6405	9.1418	2.88309	1.30890	2400.2	458434
765	585225	447697125	27.6586	9.1458	2.88366	1.30719	2403.3	459635
766	586756	449455096	27.6767	9.1498	2.88423	1.30548	2406.5	460837
767	588289	451217663	27.6948	9.1537	2.88480	1.30378	2409.6	462042
768	589824	452984832	27.7128	9.1577	2.88536	1.30208	2412.7	463247
769	591361	454756609	27.7308	9.1617	2.88593	1.30039	2415.9	464454
770	592900	456533000	27.7489	9.1657	2.88649	1.29870	2419.0	465663
771	594441	458314011	27.7669	9.1696	2.88705	1.29702	2422.2	466873
772	595984	460099648	27.7849	9.1736	2.88762	1.29534	2425.3	468085
773	597529	461889917	27.8029	9.1775	2.88818	1.29366	2428.5	469298
774	599076	463684824	27.8209	9.1815	2.88874	1.29199	2431.6	470513
775	600625	465484375	27.8388	9.1855	2.88930	1.29032	2434.7	471730
776	602176	467288576	27.8568	9.1894	2.88986	1.28866	2437.9	472948
777	603729	469097433	27.8747	9.1933	2.89042	1.28700	2441.0	474168
778	605284	470910952	27.8927	9.1973	2.89098	1.28535	2444.2	475389
779	606841	472729139	27.9106	9.2012	2.89154	1.28370	2447.3	476612
780	608400	474552000	27.9285	9.2052	2.89209	1.28205	2450.4	477836
781	609961	476379541	27.9464	9.2091	2.89265	1.28041	2453.6	479062
782	611524	478211768	27.9643	9.2130	2.89321	1.27877	2456.7	480290
783	613089	480048687	27.9821	9.2170	2.89376	1.27714	2459.9	481519
784	614656	481890304	28.0000	9.2209	2.89432	1.27551	2463.0	482750
785	616225	483736625	28.0179	9.2248	2.89487	1.27389	2466.2	483982
786	617796	485587656	28.0357	9.2287	2.89542	1.27226	2469.3	485216
787	619369	487443403	28.0535	9.2326	2.89597	1.27065	2472.4	486451
788	620944	489303872	28.0713	9.2365	2.89653	1.26904	2475.6	487688
789	622521	491169069	28.0891	9.2404	2.89708	1.26743	2478.7	488927
790	624100	493039000	28.1069	9.2443	2.89763	1.26582	2481.9	490167
791	625681	494913671	28.1247	9.2482	2.89818	1.26422	2485.0	491409
792	627264	496793088	28.1425	9.2521	2.89873	1.26263	2488.1	492652
793	628849	498677257	28.1603	9.2560	2.89927	1.26103	2491.3	493897
794	630436	500566184	28.1780	9.2599	2.89982	1.25945	2494.4	495143
795	632025	502459875	28.1957	9.2638	2.90037	1.25786	2497.6	496391
796	633616	504358336	28.2135	9.2677	2.90091	1.25628	2500.7	497641
797	635209	506261573	28.2312	9.2716	2.90146	1.25471	2503.8	498892
798	636804	508169592	28.2489	9.2754	2.90200	1.25313	2507.0	500145
799	638401	510082399	28.2666	9.2793	2.90255	1.25156	2510.1	501399

**SQUARES, CUBES, SQUARE ROOTS, CUBE ROOTS, LOGARITHMS, RECIPROCAL.
CIRCUMFERENCES AND CIRCULAR AREAS OF NOS. FROM 1 TO 1000**

No.	Square	Cube	Sq. Root	Cu. Root	Log.	1000xRecip.	No. = Dia.	
							Circum.	Area
800	640000	512000000	28.2843	9.2832	2.90309	1.25000	2513.3	502655
801	641601	513922401	28.3019	9.2870	2.90363	1.24844	2516.4	503912
802	643204	515849608	28.3196	9.2909	2.90417	1.24688	2519.6	505171
803	644809	517781627	28.3373	9.2948	2.90472	1.24533	2522.7	506432
804	646416	519718464	28.3549	9.2986	2.90526	1.24378	2525.8	507694
805	648025	521660125	28.3725	9.3025	2.90580	1.24224	2529.0	508958
806	649636	523606616	28.3901	9.3063	2.90634	1.24069	2532.1	510223
807	651249	525557943	28.4077	9.3102	2.90687	1.23916	2535.3	511490
808	652864	527514112	28.4253	9.3140	2.90741	1.23762	2538.4	512758
809	654481	529475129	28.4429	9.3179	2.90795	1.23609	2541.5	514028
810	656100	531441000	28.4605	9.3217	2.90849	1.23457	2544.7	515300
811	657721	533411731	28.4781	9.3255	2.90902	1.23305	2547.8	516573
812	659344	535387328	28.4956	9.3294	2.90956	1.23153	2551.0	517848
813	660969	537367797	28.5132	9.3332	2.91009	1.23001	2554.1	519124
814	662596	539353144	28.5307	9.3370	2.91062	1.22850	2557.3	520402
815	664225	541343375	28.5482	9.3408	2.91116	1.22699	2560.4	521681
816	665856	543338496	28.5657	9.3447	2.91169	1.22549	2563.5	522962
817	667489	545338513	28.5832	9.3485	2.91222	1.22399	2566.7	524245
818	669124	547343432	28.6007	9.3523	2.91275	1.22249	2569.8	525529
819	670761	549353259	28.6182	9.3561	2.91328	1.22100	2573.0	526814
820	672400	551368000	28.6356	9.3599	2.91381	1.21951	2576.1	528102
821	674041	553387661	28.6531	9.3637	2.91434	1.21803	2579.2	529391
822	675684	555412248	28.6705	9.3675	2.91487	1.21655	2582.4	530681
823	677329	557441767	28.6880	9.3713	2.91540	1.21507	2585.5	531973
824	678976	559476224	28.7054	9.3751	2.91593	1.21359	2588.7	533267
825	680625	561515625	28.7228	9.3789	2.91645	1.21212	2591.8	534562
826	682276	563559976	28.7402	9.3827	2.91698	1.21065	2595.0	535858
827	683929	565609283	28.7576	9.3865	2.91751	1.20919	2598.1	537157
828	685584	567663552	28.7750	9.3902	2.91803	1.20773	2601.2	538456
829	687241	569722789	28.7924	9.3940	2.91855	1.20627	2604.4	539758
830	688900	571787000	28.8097	9.3978	2.91908	1.20482	2607.5	541061
831	690561	573856191	28.8271	9.4016	2.91960	1.20337	2610.7	542365
832	692224	575930368	28.8444	9.4053	2.92012	1.20192	2613.8	543671
833	693889	578009537	28.8617	9.4091	2.92065	1.20048	2616.9	544979
834	695556	580093704	28.8791	9.4129	2.92117	1.19904	2620.1	546288
835	697225	582182875	28.8964	9.4166	2.92169	1.19760	2623.2	547599
836	698896	584277056	28.9137	9.4204	2.92221	1.19617	2626.4	548912
837	700569	586376253	28.9310	9.4241	2.92273	1.19474	2629.5	550226
838	702244	588480472	28.9482	9.4279	2.92324	1.19332	2632.7	551541
839	703921	590589719	28.9655	9.4316	2.92376	1.19189	2635.8	552858
840	705600	592704000	28.9828	9.4354	2.92428	1.19048	2638.9	554177
841	707281	594823321	29.0000	9.4391	2.92480	1.18906	2642.1	555497
842	708964	596947688	29.0172	9.4429	2.92531	1.18765	2645.2	556819
843	710649	599077107	29.0345	9.4466	2.92583	1.18624	2648.4	558142
844	712336	601211584	29.0517	9.4503	2.92634	1.18483	2651.5	559467
845	714025	603351125	29.0689	9.4541	2.92686	1.18343	2654.6	560794
846	715716	605495736	29.0861	9.4578	2.92737	1.18203	2657.8	562122
847	717409	607645423	29.1033	9.4615	2.92788	1.18064	2660.9	563452
848	719104	609800192	29.1204	9.4652	2.92840	1.17925	2664.1	564783
849	720801	611960049	29.1376	9.4690	2.92891	1.17786	2667.2	566116

**SQUARES, CUBES, SQUARE ROOTS, CUBE ROOTS, LOGARITHMS, RECIPROCALs,
CIRCUMFERENCES AND CIRCULAR AREAS OF NOS. FROM 1 TO 1000**

No.	Square	Cube	Sq. Root	Cu. Root	Log.	1000xRecip.	No. = Dia.	
							Circum.	Area
850	722500	614125000	29.1548	9.4727	2.92942	1.17647	2670.4	567450
851	724201	616295051	29.1719	9.4764	2.92993	1.17509	2673.5	568786
852	725904	618470208	29.1890	9.4801	2.93044	1.17371	2676.6	570124
853	727609	620650477	29.2062	9.4838	2.93095	1.17233	2679.8	571463
854	729316	622835864	29.2233	9.4875	2.93146	1.17096	2682.9	572803
855	731025	625026375	29.2404	9.4912	2.93197	1.16959	2686.1	574146
856	732736	627222016	29.2575	9.4949	2.93247	1.16822	2689.2	575490
857	734449	629422793	29.2746	9.4986	2.93298	1.16686	2692.3	576835
858	736164	631628712	29.2916	9.5023	2.93349	1.16550	2695.5	578182
859	737881	633839779	29.3087	9.5060	2.93399	1.16414	2698.6	579530
860	739600	636056000	29.3258	9.5097	2.93450	1.16279	2701.8	580880
861	741321	638277381	29.3428	9.5134	2.93500	1.16144	2704.9	582232
862	743044	640503928	29.3598	9.5171	2.93551	1.16009	2708.1	583585
863	744769	642735647	29.3769	9.5207	2.93601	1.15875	2711.2	584940
864	746496	644972544	29.3939	9.5244	2.93651	1.15741	2714.3	586297
865	748225	647214625	29.4109	9.5281	2.93702	1.15607	2717.5	587655
866	749956	649461896	29.4279	9.5317	2.93752	1.15473	2720.6	589014
867	751689	651714363	29.4449	9.5354	2.93802	1.15340	2723.8	590375
868	753424	653972032	29.4618	9.5391	2.93852	1.15207	2726.9	591738
869	755161	656234909	29.4788	9.5427	2.93902	1.15075	2730.0	593102
870	756900	658503000	29.4958	9.5464	2.93952	1.14943	2733.2	594468
871	758641	660776311	29.5127	9.5501	2.94002	1.14811	2736.3	595835
872	760384	663054848	29.5296	9.5537	2.94052	1.14679	2739.5	597204
873	762129	665338617	29.5466	9.5574	2.94101	1.14548	2742.6	598575
874	763876	667627624	29.5635	9.5610	2.94151	1.14416	2745.8	599947
875	765625	669921875	29.5804	9.5647	2.94201	1.14286	2748.9	601320
876	767376	672221376	29.5973	9.5683	2.94250	1.14155	2752.0	602696
877	769129	674526193	29.6142	9.5719	2.94300	1.14025	2755.2	604073
878	770884	676836152	29.6311	9.5756	2.94349	1.13895	2758.3	605451
879	772641	679151439	29.6479	9.5792	2.94399	1.13766	2761.5	606831
880	774400	681472000	29.6648	9.5828	2.94448	1.13636	2764.6	608212
881	776161	683797841	29.6816	9.5865	2.94498	1.13507	2767.7	609595
882	777924	686128968	29.6985	9.5901	2.94547	1.13379	2770.9	610980
883	779689	688465387	29.7153	9.5937	2.94596	1.13250	2774.0	612366
884	781456	690807104	29.7321	9.5973	2.94645	1.13122	2777.2	613754
885	783225	693154125	29.7489	9.6010	2.94694	1.12994	2780.3	615143
886	784996	695506456	29.7658	9.6046	2.94743	1.12867	2783.5	616534
887	786769	697864103	29.7825	9.6082	2.94792	1.12740	2786.6	617927
888	788544	700227072	29.7993	9.6118	2.94841	1.12613	2789.7	619321
889	790321	702595369	29.8161	9.6154	2.94890	1.12486	2792.9	620717
890	792100	704969000	29.8329	9.6190	2.94939	1.12360	2796.0	622114
891	793881	707347971	29.8496	9.6226	2.94988	1.12233	2799.2	623513
892	795664	709732288	29.8664	9.6262	2.95036	1.12108	2802.3	624913
893	797449	712121957	29.8831	9.6298	2.95085	1.11982	2805.4	626315
894	799236	714516984	29.8998	9.6334	2.95134	1.11857	2808.6	627718
895	801025	716917375	29.9166	9.6370	2.95182	1.11732	2811.7	629124
896	802816	719323136	29.9333	9.6406	2.95231	1.11607	2814.9	630530
897	804609	721734273	29.9500	9.6442	2.95279	1.11483	2818.0	631938
898	806404	724150792	29.9666	9.6477	2.95328	1.11359	2821.2	633348
899	808201	726572699	29.9833	9.6513	2.95376	1.11235	2824.3	634760

**SQUARES, CUBES, SQUARE ROOTS, CUBE ROOTS, LOGARITHMS, RECIPROCALs,
CIRCUMFERENCES AND CIRCULAR AREAS OF NOS. FROM 1 TO 1000**

No.	Square	Cube	Sq. Root	Cu. Root	Log.	1000xRecip.	No. = Dia.	
							Circum.	Area
900	810000	729000000	30.0000	9.6549	2.95424	1.11111	2827.4	636173
901	811801	731432701	30.0167	9.6585	2.95472	1.10988	2830.6	637587
902	813604	733870808	30.0333	9.6620	2.95521	1.10865	2833.7	639003
903	815409	736314327	30.0500	9.6656	2.95569	1.10742	2836.9	640421
904	817216	738763264	30.0666	9.6692	2.95617	1.10619	2840.0	641840
905	819025	741217625	30.0832	9.6727	2.95665	1.10497	2843.1	643261
906	820836	743677416	30.0998	9.6763	2.95713	1.10375	2846.3	644683
907	822649	746142643	30.1164	9.6799	2.95761	1.10254	2849.4	646107
908	824464	748613312	30.1330	9.6834	2.95809	1.10132	2852.6	647533
909	826281	751089429	30.1496	9.6870	2.95856	1.10011	2855.7	648960
910	828100	753571000	30.1662	9.6905	2.95904	1.09890	2858.8	650388
911	829921	756058031	30.1828	9.6941	2.95952	1.09769	2862.0	651818
912	831744	758550528	30.1993	9.6976	2.95999	1.09649	2865.1	653250
913	833569	761048497	30.2159	9.7012	2.96047	1.09529	2868.3	654684
914	835396	763551944	30.2324	9.7047	2.96095	1.09409	2871.4	656118
915	837225	766060875	30.2490	9.7082	2.96142	1.09290	2874.6	657555
916	839056	768575296	30.2655	9.7118	2.96190	1.09170	2877.7	658993
917	840889	771095213	30.2820	9.7153	2.96237	1.09051	2880.8	660433
918	842724	773620632	30.2985	9.7188	2.96284	1.08932	2884.0	661874
919	844561	776151559	30.3150	9.7224	2.96332	1.08814	2887.1	663317
920	846400	778688000	30.3315	9.7259	2.96379	1.08696	2890.3	664761
921	848241	781229961	30.3480	9.7294	2.96426	1.08578	2893.4	666207
922	850084	783777448	30.3645	9.7329	2.96473	1.08460	2896.5	667654
923	851929	786330467	30.3809	9.7364	2.96520	1.08342	2899.7	669103
924	853776	788889024	30.3974	9.7400	2.96567	1.08225	2902.8	670554
925	855625	791453125	30.4138	9.7435	2.96614	1.08108	2906.0	672006
926	857476	794022776	30.4302	9.7470	2.96661	1.07991	2909.1	673460
927	859329	796597983	30.4467	9.7505	2.96708	1.07875	2912.3	674915
928	861184	799178752	30.4631	9.7540	2.96755	1.07759	2915.4	676372
929	863041	801765089	30.4795	9.7575	2.96802	1.07643	2918.5	677831
930	864900	804357000	30.4959	9.7610	2.96848	1.07527	2921.7	679291
931	866761	806954491	30.5123	9.7645	2.96895	1.07411	2924.8	680752
932	868624	809557568	30.5287	9.7680	2.96942	1.07296	2928.0	682216
933	870489	812166237	30.5450	9.7715	2.96988	1.07181	2931.1	683680
934	872356	814780504	30.5614	9.7750	2.97035	1.07066	2934.2	685147
935	874225	817400375	30.5778	9.7785	2.97081	1.06952	2937.4	686615
936	876096	820025856	30.5941	9.7819	2.97128	1.06838	2940.5	688084
937	877969	822656953	30.6105	9.7854	2.97174	1.06724	2943.7	689555
938	879844	825293672	30.6268	9.7889	2.97220	1.06610	2946.8	691028
939	881721	827936019	30.6431	9.7924	2.97267	1.06496	2950.0	692502
940	883600	830584000	30.6594	9.7959	2.97313	1.06383	2953.1	693978
941	885481	833237621	30.6757	9.7993	2.97359	1.06270	2956.2	695455
942	887364	835896888	30.6920	9.8028	2.97405	1.06157	2959.4	696934
943	889249	838561807	30.7083	9.8063	2.97451	1.06045	2962.5	698415
944	891136	841232384	30.7246	9.8097	2.97497	1.05932	2965.7	699897
945	893025	843908625	30.7409	9.8132	2.97543	1.05820	2968.8	701380
946	894916	846590536	30.7571	9.8167	2.97589	1.05708	2971.9	702865
947	896809	849278123	30.7734	9.8201	2.97635	1.05597	2975.1	704352
948	898704	851971392	30.7896	9.8236	2.97681	1.05485	2978.2	705840
949	900601	854670349	30.8058	9.8270	2.97727	1.05374	2981.4	707330

SQUARES, CUBES, SQUARE ROOTS, CUBE ROOTS, LOGARITHMS, RECIPROCAL, CIRCUMFERENCES AND CIRCULAR AREAS OF NOS. FROM 1 TO 1000

No.	Square	Cube	Sq. Root	Cu. Root	Log.	1000xRecip.	No. = Dia.	
							Circum.	Area
950	902500	857875000	30.8221	9.8305	2.97772	1.05263	2984.5	708822
951	904401	860085351	30.8383	9.8339	2.97818	1.05152	2987.7	710315
952	906304	862801408	30.8545	9.8374	2.97864	1.05042	2990.8	711809
953	908209	865523177	30.8707	9.8408	2.97909	1.04932	2993.9	713306
954	910116	868250664	30.8869	9.8443	2.97955	1.04822	2997.1	714803
955	912025	870983875	30.9031	9.8477	2.98000	1.04712	3000.2	716303
956	913936	873722816	30.9192	9.8511	2.98046	1.04603	3003.4	717804
957	915849	876467493	30.9354	9.8546	2.98091	1.04493	3006.5	719306
958	917764	879217912	30.9516	9.8580	2.98137	1.04384	3009.6	720810
959	919681	881974079	30.9677	9.8614	2.98182	1.04275	3012.8	722316
960	921600	884736000	30.9839	9.8648	2.98227	1.04167	3015.9	723823
961	923521	887503681	31.0000	9.8683	2.98272	1.04058	3019.1	725332
962	925444	890277128	31.0161	9.8717	2.98318	1.03950	3022.2	726842
963	927369	893056347	31.0322	9.8751	2.98363	1.03842	3025.4	728354
964	929296	895841344	31.0483	9.8785	2.98408	1.03734	3028.5	729867
965	931225	898632125	31.0644	9.8819	2.98453	1.03627	3031.6	731382
966	933156	901428696	31.0805	9.8854	2.98498	1.03520	3034.8	732899
967	935089	904231063	31.0966	9.8888	2.98543	1.03413	3037.9	734417
968	937024	907039232	31.1127	9.8922	2.98588	1.03306	3041.1	735937
969	938961	909853209	31.1288	9.8956	2.98632	1.03199	3044.2	737458
970	940900	912673000	31.1448	9.8990	2.98677	1.03093	3047.3	738981
971	942841	915498611	31.1609	9.9024	2.98722	1.02987	3050.5	740506
972	944784	918330048	31.1769	9.9058	2.98767	1.02881	3053.6	742032
973	946729	921167317	31.1929	9.9092	2.98811	1.02775	3056.8	743559
974	948676	924010424	31.2090	9.9126	2.98856	1.02669	3059.9	745088
975	950625	926859375	31.2250	9.9160	2.98900	1.02564	3063.1	746619
976	952576	929714176	31.2410	9.9194	2.98945	1.02459	3066.2	748151
977	954529	932574833	31.2570	9.9227	2.98989	1.02354	3069.3	749685
978	956484	935441352	31.2730	9.9261	2.99034	1.02249	3072.5	751221
979	958441	938313739	31.2890	9.9295	2.99078	1.02145	3075.6	752758
980	960400	941192000	31.3050	9.9329	2.99123	1.02041	3078.8	754296
981	962361	944076141	31.3209	9.9363	2.99167	1.01937	3081.9	755837
982	964324	946966168	31.3369	9.9396	2.99211	1.01833	3085.0	757378
983	966289	949862087	31.3528	9.9430	2.99255	1.01729	3088.2	758922
984	968256	952763904	31.3688	9.9464	2.99300	1.01626	3091.3	760466
985	970225	955671625	31.3847	9.9497	2.99344	1.01523	3094.5	762013
986	972196	958585256	31.4006	9.9531	2.99388	1.01420	3097.6	763561
987	974169	961504803	31.4166	9.9565	2.99432	1.01317	3100.8	765111
988	976144	964430272	31.4325	9.9598	2.99476	1.01215	3103.9	766662
989	978121	967361669	31.4484	9.9632	2.99520	1.01112	3107.0	768214
990	980100	970299000	31.4643	9.9666	2.99564	1.01010	3110.2	769769
991	982081	973242271	31.4802	9.9699	2.99607	1.00908	3113.3	771325
992	984064	976191488	31.4960	9.9733	2.99651	1.00806	3116.5	772882
993	986049	979146657	31.5119	9.9766	2.99695	1.00705	3119.6	774441
994	988036	982107784	31.5278	9.9800	2.99739	1.00604	3122.7	776002
995	990025	985074875	31.5436	9.9833	2.99782	1.00503	3125.9	777564
996	992016	988047936	31.5595	9.9866	2.99826	1.00402	3129.0	779128
997	994009	991026973	31.5753	9.9900	2.99870	1.00301	3132.2	780693
998	996004	994011992	31.5911	9.9933	2.99913	1.00200	3135.3	782260
999	998001	997002999	31.6070	9.9967	2.99957	1.00100	3138.5	783828

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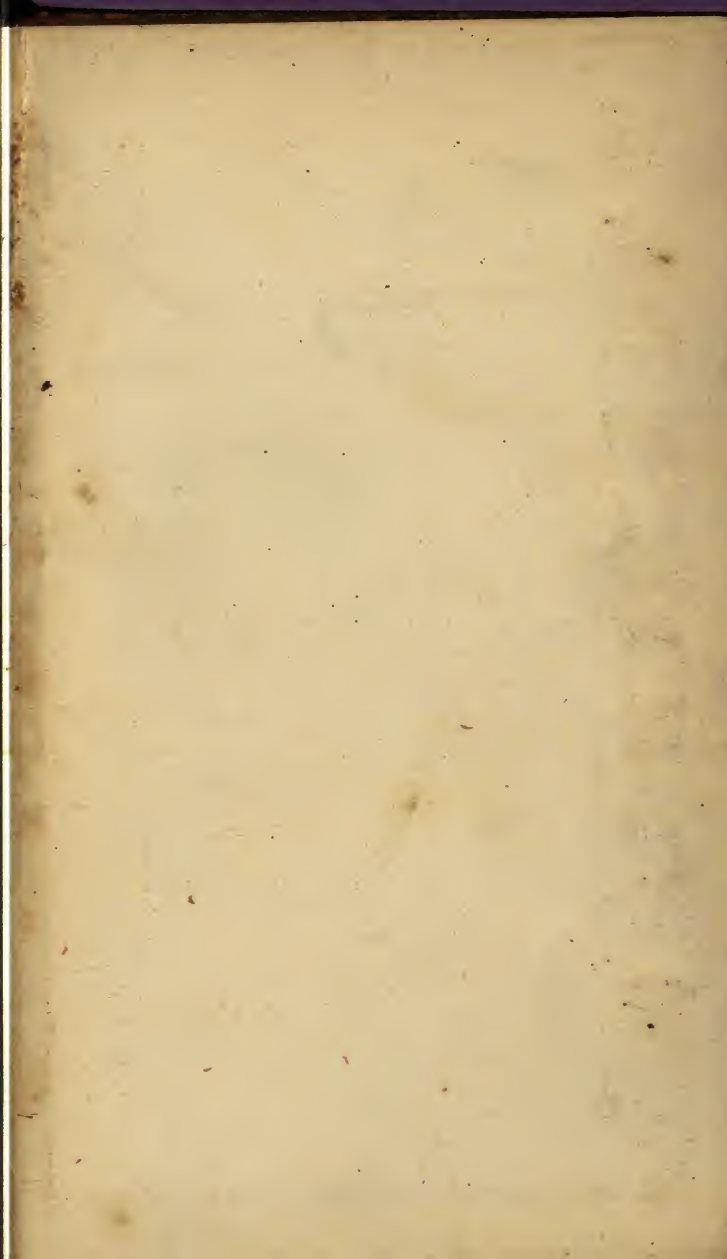
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Prices are subject to change without notice.

Extras are given in cents per pound.

Throughout this list Birmingham Wire Gauge is used.

LIGHT BANDS.

Width.	(gauge.	Extra for size.
1½ to 6	7, 8, 9 or 10	Base
1½ to 6	10, 11, 12 or 18	.05c
1 to 1¾	7, 8, 9 or 10	.10
1 to 1¾	10, 11, 12 or 18	.15
¾ and ¾	7, 8, 9 or 10	.20
¾ and ¾	10, 11, 12 or 18	.25
¾ and ¾	7, 8, 9 or 10	.30
¾ and ¾	10, 11, 12 or 18	.35
¾ and ¾	7, 8, 9 or 10	.40
¾ and ¾	10, 11, 12 or 18	.45
¾	7, 8, 9 or 10	.55
¾	10, 11, 12 or 18	.60
¾	7, 8, 9 or 10	.75
¾	10, 11, 12 or 18	.85
¾	7, 8, 9 or 10	.95
¾	10, 11, 12 or 18	1.05

HOOPS.

Width.	Gauge.	Extra for size.
1 ⁷ / ₈ to 3	13, 14, 15, 16	.10c
1 ¹ / ₂ to 2	17, 18 and 19	.15
1 ⁷ / ₈ to 2	20	.20
1 ¹ / ₂ to 2	21	.25
1 ¹ / ₂ to 1 ³ / ₄	22	.35
1 ¹ / ₈ to 1 ³ / ₈	13, 14 and 15	.15
1 ¹ / ₈ to 1 ³ / ₈	16, 17 and 18	.20
1 ¹ / ₈ to 1 ³ / ₈	19 and 20	.25
1 ¹ / ₈ to 1 ³ / ₈	21	.30
1 ¹ / ₈ to 1 ³ / ₈	22	.40
1 ¹ / ₈ to 1 ³ / ₈	13, 14 and 15	.20
1 ¹ / ₈ to 1 ³ / ₈	16, 17 and 18	.25
1 ¹ / ₈ to 1 ³ / ₈	19 and 20	.30
1 ¹ / ₈ to 1 ³ / ₈	21	.35
1 ¹ / ₈ to 1 ³ / ₈	22	.45
1 ¹ / ₈ to 1 ³ / ₈	23	.55
1 ¹ / ₈ to 1 ³ / ₈	24	.65
1 ¹ / ₈ to 1 ³ / ₈	13, 14 and 15	.80
1 ¹ / ₈ to 1 ³ / ₈	16, 17 and 18	.85
1 ¹ / ₈ to 1 ³ / ₈	19 and 20	.90
1 ¹ / ₈ to 1 ³ / ₈	21	.40
1 ¹ / ₈ to 1 ³ / ₈	22	.45
1 ¹ / ₈ to 1 ³ / ₈	23	.55
1 ¹ / ₈ to 1 ³ / ₈	24	.65
1 ¹ / ₈ to 1 ³ / ₈	13, 14 and 15	.75
1 ¹ / ₈ to 1 ³ / ₈	16, 17 and 18	.40
1 ¹ / ₈ to 1 ³ / ₈	19 and 20	.45
1 ¹ / ₈ to 1 ³ / ₈	21	.50
1 ¹ / ₈ to 1 ³ / ₈	22	.55
1 ¹ / ₈ to 1 ³ / ₈	23	.65
1 ¹ / ₈ to 1 ³ / ₈	24	.75
1 ¹ / ₈ to 1 ³ / ₈	13, 14 and 15	.40
1 ¹ / ₈ to 1 ³ / ₈	16, 17 and 18	.45
1 ¹ / ₈ to 1 ³ / ₈	19 and 20	.50
1 ¹ / ₈ to 1 ³ / ₈	21	.55
1 ¹ / ₈ to 1 ³ / ₈	22	.60
1 ¹ / ₈ to 1 ³ / ₈	23	.70
1 ¹ / ₈ to 1 ³ / ₈	24	.80
1 ¹ / ₈ to 1 ³ / ₈	13, 14 and 15	.45
1 ¹ / ₈ to 1 ³ / ₈	16, 17 and 18	.50
1 ¹ / ₈ to 1 ³ / ₈	19 and 20	.60
1 ¹ / ₈ to 1 ³ / ₈	21	.70
1 ¹ / ₈ to 1 ³ / ₈	22	.80
1 ¹ / ₈ to 1 ³ / ₈	23	.90
1 ¹ / ₈ to 1 ³ / ₈	24	1.00
1 ¹ / ₈ to 1 ³ / ₈	13, 14 and 15	1.10
1 ¹ / ₈ to 1 ³ / ₈	16, 17 and 18	1.20
1 ¹ / ₈ to 1 ³ / ₈	19 and 20	1.30
1 ¹ / ₈ to 1 ³ / ₈	21	1.40
1 ¹ / ₈ to 1 ³ / ₈	22	1.50
1 ¹ / ₈ to 1 ³ / ₈	23	1.60
1 ¹ / ₈ to 1 ³ / ₈	24	1.70
1 ¹ / ₈ to 1 ³ / ₈	13, 14 and 15	1.80
1 ¹ / ₈ to 1 ³ / ₈	16, 17 and 18	1.90
1 ¹ / ₈ to 1 ³ / ₈	19 and 20	2.00
1 ¹ / ₈ to 1 ³ / ₈	21	2.10
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1 ¹ / ₈ to 1 ³ / ₈	23	2.30
1 ¹ / ₈ to 1 ³ / ₈	24	2.40
1 ¹ / ₈ to 1 ³ / ₈	13, 14 and 15	2.50
1 ¹ / ₈ to 1 ³ / ₈	16, 17 and 18	2.60
1 ¹ / ₈ to 1 ³ / ₈	19 and 20	2.70
1 ¹ / ₈ to 1 ³ / ₈	21	2.80
1 ¹ / ₈ to 1 ³ / ₈	22	2.90
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1 ¹ / ₈ to 1 ³ / ₈	21	3.50
1 ¹ / ₈ to 1 ³ / ₈	22	3.60
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1 ¹ / ₈ to 1 ³ / ₈	24	3.80
1 ¹ / ₈ to 1 ³ / ₈	13, 14 and 15	3.90
1 ¹ / ₈ to 1 ³ / ₈	16, 17 and 18	4.00
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1 ¹ / ₈ to 1 ³ / ₈	24	4.50
1 ¹ / ₈ to 1 ³ / ₈	13, 14 and 15	4.60
1 ¹ / ₈ to 1 ³ / ₈	16, 17 and 18	4.70
1 ¹ / ₈ to 1 ³ / ₈	19 and 20	4.80
1 ¹ / ₈ to 1 ³ / ₈	21	4.90
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1 ¹ / ₈ to 1 ³ / ₈	16, 17 and 18	5.40
1 ¹ / ₈ to 1 ³ / ₈	19 and 20	5.50
1 ¹ / ₈ to 1 ³ / ₈	21	5.60
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1 ¹ / ₈ to 1 ³ / ₈	19 and 20	6.20
1 ¹ / ₈ to 1 ³ / ₈	21	6.30
1 ¹ / ₈ to 1 ³ / ₈	22	6.40
1 ¹ / ₈ to 1 ³ / ₈	23	6.50
1 ¹ / ₈ to 1 ³ / ₈	24	6.60
1 ¹ / ₈ to 1 ³ / ₈	13, 14 and 15	6.70
1 ¹ / ₈ to 1 ³ / ₈	16, 17 and 18	6.80
1 ¹ / ₈ to 1 ³ / ₈	19 and 20	6.90
1 ¹ / ₈ to 1 ³ / ₈	21	7.00
1 ¹ / ₈ to 1 ³ / ₈	22	7.10
1 ¹ / ₈ to 1 ³ / ₈	23	7.20
1 ¹ / ₈ to 1 ³ / ₈	24	7.30
1 ¹ / ₈ to 1 ³ / ₈	13, 14 and 15	7.40
1 ¹ / ₈ to 1 ³ / ₈	16, 17 and 18	7.50
1 ¹ / ₈ to 1 ³ / ₈	19 and 20	7.60
1 ¹ / ₈ to 1 ³ / ₈	21	7.70
1 ¹ / ₈ to 1 ³ / ₈	22	7.80
1 ¹ / ₈ to 1 ³ / ₈	23	7.90
1 ¹ / ₈ to 1 ³ / ₈	24	8.00
1 ¹ / ₈ to 1 ³ / ₈	13, 14 and 15	8.10
1 ¹ / ₈ to 1 ³ / ₈	16, 17 and 18	8.20
1 ¹ / ₈ to 1 ³ / ₈	19 and 20	8.30
1 ¹ / ₈ to 1 ³ / ₈	21	8.40
1 ¹ / ₈ to 1 ³ / ₈	22	8.50
1 ¹ / ₈ to 1 ³ / ₈	23	8.60
1 ¹ / ₈ to 1 ³ / ₈	24	8.70
1 ¹ / ₈ to 1 ³ / ₈	13, 14 and 15	8.80
1 ¹ / ₈ to 1 ³ / ₈	16, 17 and 18	8.90
1 ¹ / ₈ to 1 ³ / ₈	19 and 20	9.00
1 ¹ / ₈ to 1 ³ / ₈	21	9.10
1 ¹ / ₈ to 1 ³ / ₈	22	9.20
1 ¹ / ₈ to 1 ³ / ₈	23	9.30
1 ¹ / ₈ to 1 ³ / ₈	24	9.40
1 ¹ / ₈ to 1 ³ / ₈	13, 14 and 15	9.50
1 ¹ / ₈ to 1 ³ / ₈	16, 17 and 18	9.60
1 ¹ / ₈ to 1 ³ / ₈	19 and 20	9.70
1 ¹ / ₈ to 1 ³ / ₈	21	9.80
1 ¹ / ₈ to 1 ³ / ₈	22	9.90
1 ¹ / ₈ to 1 ³ / ₈	23	10.00
1 ¹ / ₈ to 1 ³ / ₈	24	10.10
1 ¹ / ₈ to 1 ³ / ₈	13, 14 and 15	10.20
1 ¹ / ₈ to 1 ³ / ₈	16, 17 and 18	10.30
1 ¹ / ₈ to 1 ³ / ₈	19 and 20	10.40
1 ¹ / ₈ to 1 ³ / ₈	21	10.50
1 ¹ / ₈ to 1 ³ / ₈	22	10.60
1 ¹ / ₈ to 1 ³ / ₈	23	10.70
1 ¹ / ₈ to 1 ³ / ₈	24	10.80
1 ¹ / ₈ to 1 ³ / ₈	13, 14 and 15	10.90
1 ¹ / ₈ to 1 ³ / ₈	16, 17 and 18	11.00
1 ¹ / ₈ to 1 ³ / ₈	19 and 20	11.10
1 ¹ / ₈ to 1 ³ / ₈	21	11.20
1 ¹ / ₈ to 1 ³ / ₈	22	11.30
1 ¹ / ₈ to 1 ³ / ₈	23	11.40
1 ¹ / ₈ to 1 ³ / ₈	24	11.50
1 ¹ / ₈ to 1 ³ / ₈	13, 14 and 15	11.60
1 ¹ / ₈ to 1 ³ / ₈	16, 17 and 18	11.70
1 ¹ / ₈ to 1 ³ / ₈	19 and 20	11.80
1 ¹ / ₈ to 1 ³ / ₈	21	11.90
1 ¹ / ₈ to 1 ³ / ₈	22	12.00
1 ¹ / ₈ to 1 ³ / ₈	23	12.10
1 ¹ / ₈ to 1 ³ / ₈	24	12.20
1 ¹ / ₈ to 1 ³ / ₈	13, 14 and 15	12.30
1 ¹ / ₈ to 1 ³ / ₈	16, 17 and 18	12.40
1 ¹ / ₈ to 1 ³ / ₈	19 and 20	12.50
1 ¹ / ₈ to 1 ³ / ₈	21	12.60
1 ¹ / ₈ to 1 ³ / ₈	22	12.70
1 ¹ / ₈ to 1 ³ / ₈	23	12.80
1 ¹ / ₈ to 1 ³ / ₈	24	12.90
1 ¹ / ₈ to 1 ³ / ₈	13, 14 and 15	13.00
1 ¹ / ₈ to 1 ³ / ₈	16, 17 and 18	13.10
1 ¹ / ₈ to 1 ³ / ₈	19 and 20	13.20
1 ¹ / ₈ to 1 ³ / ₈	21	13.30
1 ¹ / ₈ to 1 ³ / ₈	22	13.40
1 ¹ / ₈ to 1 ³ / ₈	23	13.50
1 ¹ / ₈ to 1 ³ / ₈	24	13.60
1 ¹ / ₈ to 1 ³ / ₈	13, 14 and 15	13.70
1 ¹ / ₈ to 1 ³ / ₈	16, 17 and 18	13.80
1 ¹ / ₈ to 1 ³ / ₈	19 and 20	13.90
1 ¹ / ₈ to 1 ³ / ₈	21	14.00
1 ¹ / ₈ to 1 ³ / ₈	22	14.10
1 ¹ / ₈ to 1 ³ / ₈	23	14.20
1 ¹ / ₈ to 1 ³ / ₈	24	14.30
1 ¹ / ₈ to 1 ³ / ₈	13, 14 and 15	14.40
1 ¹ / ₈ to 1 ³ / ₈	16, 17 and 18	14.50
1 ¹ / ₈ to 1 ³ / ₈	19 and 20	14.60
1 ¹ / ₈ to 1 ³ / ₈	21	14.70
1 ¹ / ₈ to 1 ³ / ₈	22	14.80
1 ¹ / ₈ to 1 ³ / ₈	23	14.90
1 ¹ / ₈ to 1 ³ / ₈	24	15.00
1 ¹ / ₈ to 1 ³ / ₈	13, 14 and 15	15.10
1 ¹ / ₈ to 1 ³ / ₈	16, 17 and 18	15.20
1 ¹ / ₈ to 1 ³ / ₈	19 and 20	15.30
1 ¹ / ₈ to 1 ³ / ₈	21	15.40
1 ¹ / ₈ to 1 ³ / ₈	22	15.50
1 ¹ / ₈ to 1 ³ / ₈	23	15.60
1 ¹ / ₈ to 1 ³ / ₈	24	15.70
1 ¹ / ₈ to 1 ³ / ₈	13, 14 and 15	15.80
1 ¹ / ₈ to 1 ³ / ₈	16, 17 and 18	15.90
1 ¹ / ₈ to 1 ³ / ₈	19 and 20	16.00
1 ¹ / ₈ to 1 ³ / ₈	21	16.10
1 ¹ / ₈ to 1 ³ / ₈	22	16.20
1 ¹ / ₈ to 1 ³ / ₈	23	16.30
1 ¹ / ₈ to 1 ³ / ₈	24	16.40
1 ¹ / ₈ to 1 ³ / ₈	13, 14 and 15	16.50
1 ¹ / ₈ to 1 ³ / ₈	16, 17 and 18	16.60
1 ¹ / ₈ to 1 ³ / ₈	19 and 20	16.70
1 ¹ / ₈ to 1 ³ / ₈	21	16.80
1 ¹ / ₈ to 1 ³ / ₈	22	16.90
1 ¹ / ₈ to 1 ³ / ₈	23	17.00
1 ¹ / ₈ to 1 ³ / ₈	24	17.10
1 ¹ / ₈ to 1 ³ / ₈	13, 14 and 15	17.20
1 ¹ / ₈ to 1 ³ / ₈	16, 17 and 18	17.30
1 ¹ / ₈ to 1 ³ / ₈	19 and 20	17.40
1 ¹ / ₈ to 1 ³ / ₈	21	17.50
1 ¹ / ₈ to 1 ³ / ₈	22	17.60
1 ¹ / ₈ to 1 ³ / ₈	23	17.70
1 ¹ / ₈ to 1 ³ / ₈	24	17.80
1 ¹ / ₈ to 1 ³ / ₈	13, 14 and 15	17.90
1 ¹ / ₈ to 1 ³ / ₈	16, 17 and 18	18.00
1 ¹ / ₈ to 1 ³ / ₈	19 and 20	18.10
1 ¹ / ₈ to 1 ³ / ₈	21	18.20
1 ¹ / ₈ to 1 ³ / ₈	22	18.30

QUANTITY DIFFERENTIALS, BARS, BANDS, HOOPS, SHAPES.

Quantities less than 2,000 lbs., but not less than 1,000 lbs.	.20c per lb.
of a size.....	
Quantities less than 1,000 lbs. of a size.....	.60c per lb.

EXTRAS FOR CUTTING TO SPECIFIED LENGTHS

Hot Sawing	Shearing	12 to 24 inches	100
Hot Sawing	Shearing	12 to 24 inches	100
Hot Sawing	Shearing	12 to 24 inches	100
Hot Shearing	under 12 inches	100	
Machine Cutting	specified lengths above 24 inches	500	
Machine Cutting	specified lengths 12 to 24 inches	200	
Machine Cutting	specified lengths, less than 12 inches, according to size	400	
Contract, but not less than	40 on each size		
No charge for shear cutting	to multiple lengths of 12 inches and under		
All sizes not enumerated	subject to special arrangement		
No extra charge for	hot sawing or shearing to lengths of 5 feet and over		
Machine Straightening and	Centering		
	alone for ordinary sizes		
		200	
		400	

Angles larger than 6" on one or both legs.....\$0.10 extra per 100 lbs.

Beams, 18", 20" and 24".....	.10	64	64	64
Cutting to length under 5 feet.....	.25	64	64	64
" " " 2. " " 1 foot.....	.50	64	64	64
" " " 1 foot.....	1.50	64	64	64

STANDARD IRON CLASSIFICATION

FLATS

[illegible]

Light Bars and Bands

$1\frac{1}{2}$ to 6	in. x Nos. 7, 8, 9 and $\frac{1}{2}$ in.....	.40c. extra
$1\frac{1}{2}$ to 6	in. x Nos. 10, 11, 12 and $\frac{1}{8}$ in.....	.60c. extra
1 to $1\frac{1}{2}$	x Nos. 7, 8, 9 and $\frac{1}{8}$ in.....	.50c. extra
1 to $1\frac{1}{2}$	x Nos. 10, 11, 12 and $\frac{1}{8}$ in.....	.70c. extra
$\frac{1}{8}$ to $1\frac{1}{2}$	in. x Nos. 7, 8, 9 and $\frac{1}{8}$ in.....	.70c. extra
$\frac{1}{8}$ to $1\frac{1}{2}$	in. x Nos. 10, 11, 12 and $\frac{1}{8}$ in.....	.80c. extra
$\frac{1}{8}$ to $1\frac{1}{2}$	in. x Nos. 7, 8, 9 and $\frac{1}{8}$ in.....	1.00c. extra
$\frac{1}{8}$ to $1\frac{1}{2}$	in. x Nos. 10, 11, 12 and $\frac{1}{8}$ in.....	1.20c. extra
$\frac{1}{8}$ to $1\frac{1}{2}$	in. x Nos. 7, 8, 9 and $\frac{1}{8}$ in.....	1.30c. extra
$\frac{1}{8}$ to $1\frac{1}{2}$	in. x Nos. 10, 11, 12 and $\frac{1}{8}$ in.....	1.80c. extra
$\frac{1}{8}$ to $1\frac{1}{2}$	in. x Nos. 7, 8, 9 and $\frac{1}{8}$ in.....	1.30c. extra
$\frac{1}{8}$ to $1\frac{1}{2}$	in. x Nos. 10, 11, 12 and $\frac{1}{8}$ in.....	1.50c. extra
$\frac{1}{8}$ to $1\frac{1}{2}$	in. x Nos. 7, 8, 9 and $\frac{1}{8}$ in.....	1.80c. extra
$\frac{1}{8}$ to $1\frac{1}{2}$	in. x Nos. 10, 11, 12 and $\frac{1}{8}$ in.....	2.10c. extra
$\frac{1}{8}$ to $1\frac{1}{2}$	in. x Nos. 7, 8, 9 and $\frac{1}{8}$ in.....	1.90c. extra
$\frac{1}{8}$ to $1\frac{1}{2}$	in. x Nos. 10, 11, 12 and $\frac{1}{8}$ in.....	2.40c. extra
$\frac{1}{8}$ to $1\frac{1}{2}$	in. x Nos. 7, 8, 9 and $\frac{1}{8}$ in.....	2.40c. extra

Hexagon

$\frac{3}{4}$ inch and larger.....	Base
$\frac{5}{8}$ and $\frac{1}{2}$ inch.....	.20c. per lb. extra
$\frac{1}{2}$ and $\frac{1}{8}$ inch.....	.40c. “ “
$\frac{1}{16}$ inch.....	.80c. “ “
$\frac{3}{8}$ inch.....	1.00c. “ “
$\frac{1}{16}$ inch.....	1.20c. “ “
For intermediate sizes, the next higher extra to be charged in all cases.	

Ovals

$\frac{7}{8}$ and larger.....	40c. extra
$\frac{3}{4}$ to $\frac{1}{8}$ inch.....	.50c. extra
$\frac{5}{8}$ to $\frac{1}{4}$ inch.....	.60c. extra
$\frac{1}{2}$ to $\frac{1}{8}$ inch.....	.80c. extra
$\frac{3}{8}$ to $\frac{1}{16}$ inch.....	1.00c. extra

For intermediate sizes, the next higher charged in all cases.

Half Ovals and Half Rounds

$\frac{7}{8}$ in. and larger $\times \frac{7}{8}$ in. and thicker.....	50c. extra
$\frac{3}{4}$ in. to $\frac{1}{8}$ in. $\times \frac{7}{8}$ in. and thicker	80c. extra
$\frac{5}{8}$ in. to $\frac{1}{16}$ in. $\times \frac{3}{8}$ in. (No. 9) and thicker	1.00c. extra
$\frac{1}{2}$ in. to $\frac{1}{16}$ in. $\times \frac{1}{2}$ in. and thicker	1.30c. extra
$\frac{1}{4}$ in. $\times \frac{7}{8}$ in. and thicker	2.10c. extra
$\frac{3}{8}$ in. $\times \frac{3}{8}$ in. and thicker	2.50c. extra
$\frac{1}{2}$ in. $\times \frac{3}{8}$ in. and thicker	2.60c. extra
$\frac{7}{8}$ in. and larger $\times 7, 8, 9$ and $\frac{7}{8}$ in.	1.00c. extra
$\frac{3}{4}$ in. to $\frac{1}{8}$ in. $\times 10, 11, 12$ and $\frac{3}{4}$ in.	1.20c. extra
$\frac{5}{8}$ in. to $\frac{1}{16}$ in. $\times 13, 14$ and $\frac{5}{8}$ in.	1.40c. extra
$\frac{1}{2}$ in. to $\frac{1}{16}$ in. $\times 10, 11, 12$ and $\frac{1}{2}$ in.	1.30c. extra
$\frac{3}{8}$ in. to $\frac{1}{16}$ in. $\times 13, 14$ and $\frac{3}{8}$ in.	1.50c. extra
$\frac{1}{4}$ in. to $\frac{1}{16}$ in. $\times 13, 14$ and $\frac{1}{4}$ in.	1.80c. extra
$\frac{1}{2}$ in. to $\frac{1}{16}$ in. $\times 13, 14$ and $\frac{1}{2}$ in.	2.30c. extra
$\frac{3}{8}$ in. to $\frac{1}{16}$ in. $\times 13, 14$ and $\frac{3}{8}$ in.	2.70c. extra
$\frac{1}{4}$ in. to $\frac{1}{16}$ in. $\times 13, 14$ and $\frac{1}{4}$ in.	2.80c. extra
$\frac{1}{2}$ in. $\times 14$ and 15	2.70c. extra
$\frac{3}{8}$ in. $\times 14$ and 15	2.80c. extra
$\frac{1}{4}$ in. $\times 14$ and 15	2.80c. extra
$\frac{1}{2}$ in. \times less than $\frac{7}{8}$ in. thick	2.80c. extra

Angle

1 1/2 x 1/8 inches and heavier, but under 3 inches.....	Base
1 to 1 1/4 x 1/8 inches and heavier.....	10c. per lb. extra
7/8 x 1/8 inch.....	20c. “ “
3/4 x 1/8 inch.....	30c. “ “
5/8 x 1/8 inch.....	2.00c. “ “
1/2 x 1/8 inch and thicker.....	3.00c. “ “
3 x 3 inches x less than 3/4 inch thick	50c. “ “
Angles 3/4 inch and larger, but smaller than 3 inches, 1/8 inch thick.....	10c. “ over 3/8 in.

Channels

$1\frac{1}{2} \times \frac{1}{16}$ inches and heavier, but under 3 inches.....	Base
1 to $1\frac{1}{4} \times \frac{1}{16}$ inches and heavier.....	10c. per lb. extra
$\frac{7}{8} \times \frac{1}{16}$ inch.....	20c. “ “
$\frac{5}{8}$ and $\frac{3}{4} \times \frac{1}{16}$ inch.....	30c. “ “
$\frac{3}{8} \times \frac{1}{8}$ inch.....	2.00c. “ “
$\frac{1}{2} \times \frac{1}{8}$ inch and thicker.....	8.00c. “ “
Channels $\frac{3}{4}$ inch and wider, but under 3 inches, $\frac{1}{8}$ inch thick....	10c. “ over $\frac{1}{8}$ in.

Tees

1 1/2 x 1 1/8 inches and heavier, but under 3 inches.....	Base
1 1/4 x 1 1/8 inches and heavier.....	10c. per lb. extra
1 to 1 1/8 x 1 1/8 inches and heavier...	20c.
7/8 x 1/8 inch and thicker.....	50c.
3/4 x 1/8 inch and thicker.....	60c.
5/8 x 1/8 inch and thicker.....	2.00c.
	"
	"

Quantity Differentials

All specifications for less than 2000 lbs. of a size will be subject to the following extras, the total weight of a size ordered to determine the extra, regardless of lengths and regardless of exact quantity actually shipped.

Quantities less than 2000 lbs., but not less	
* than 1000 lbs.,.....	.20c. per lb.
Quantities less than 1000 lbs.,.....	.60c. “

All sizes not enumerated, subject to special arrangement.